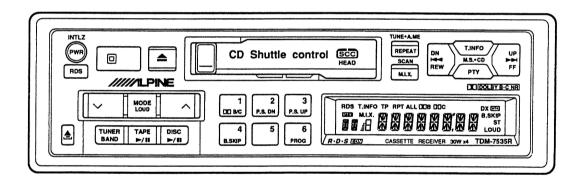


## FM/MW/LW/RDS Cassette Receiver

#### CD Shuttle Controller

● For the cassette deck mechanism parts (GR75H110/120) of this model, refer to the Service Manual • GR/GR-Y Series (68P20504W07)



# -Contents -

Specifications	3 to 4
In Case of Difficulty	4 to 5
Connections	5 to 6
Basic Operation	7
Radio Operation	8 to 9
Cassette Player Operation	9 to 10
CD Shuttle Operation	11
RDS (Radio Data System)	12 to 14
Disassembly Instructions	15
Adjustment Procedures	16 to 18
Adjustment Locations	19
Description of IC Terminal	20 to 22
LCD Display	23
Block Diagram	24
Tuner Schematic Diagram	25
Parts Layout on P.C. Boards and Wiring Diagram (1/2)	
Parts Layout on P.C. Boards and Wiring Diagram (2/2)	30 to 32
Schematic Diagram (1/3)	33 to 35
Schematic Diagram (2/3)	36 to 38
Schematic Diagram (3/3)	39 to 41
Electrical Parts List	42 to 50
Exploded View (Cabinet)	51 to 52
Cabinet Assembly Parts List	53
Packing Assembly Parts List	54
Packing Method View	54
Semi-Conductor Lead Identifications	
Spare Schematic Diagram Inserted.	

# **Specifications**

۲	M	RADIO	_

IMITADIO	
Intermediate Frequency	
Frequency Range	
Usable Sensitivity (Mono, 30dB S/N, at 98.1MHz)	
-3dB Limiting Sensitivity (at 98.1MHz)	19.2dBf
S/N Ratio (Stereo, at 98.1MHz)	
Image Rejection (at 106.1MHz)	40dB
IF Rejection (at 90.1MHz)	60dB
Distortion (Input 60dB $\mu$ , at 98.1MHz)	
Frequency Response (Ref. 400Hz, at 98.1MHz)	100Hz : 0±3dB
	10kHz : -12 <u>+</u> 3dB
Stereo Separation (1kHz, at 98.1MHz)	20dB
PS Sensitivity (at 98.1MHz)	
TP Sensitivity (at 98.1MHz)	36.2dBf
MW RADIO	
Intermediate Frequency	450kHz
Frequency Range	531∼1,602kHz
Usable Sensitivity (20dB S/N, at 999kHz)	35dB
S/N Ratio (at 999kHz)	44dB
Image Rejection (at 1,404kHz)	
IF Rejection (at 603kHz)	60dB
Distortion (at 999kHz)	1.5%
Frequency Response (Ref. 400Hz, at 999kHz)	
	4kHz : -12+6, -12dB
LW RADIO	
Intermediate Frequency	450kHz
Frequency Range	153~281kHz
Usable Sensitivity (20dB S/N, at 216kHz)	41dB
S/N Ratio (at 216kHz)	42dB
Image Rejection (at 270kHz)	40dB
IF Rejection (at 162kHz)	50dB
Distortion (at 216kHz)	1.5%
Frequency Response (Ref. 400Hz, at 216kHz)	100Hz : -3 ± 4dB
	4kHz : -12+6, -12dB
TAPE PLAYER	
Wow & Flutter (JIS, WRMS/MTT-111N)	0.2%
Tape Speed (MTT-111N)	
S/N Ratio (MTT-212N)	
	DOLBY B NR : 60.5dB (□, △)
	DOLBY C NR : 67dB (△)
Distortion (MTT-118N)	•
,	

Separation (MTT-141N) 35dB Crosstalk (MTT-121N) 45dB **GENERAL** Power Output/Impedance 11W/ch/4ohm (O, D) 14W/ch/4ohm (△) 22IC's, 41Transistors, 27Diodes, 6Zener Diodes ( ) 22IC's, 51Transistors, 27Diodes, 7Zener Diodes (△) Dimensions (W $\times$ H $\times$ D) ...... Chassis : 178 $\times$ 50 $\times$ 155mm Nose: 169 × 45 × 22 mm Note: Due to Continuing product improvement, specifications and designs are subject to change without notice. ○ : For TDM-7531R Model Only, : For TDM-7532R Model Only, △ : For TDM-7535R Model Only, Others: Common.

#### In Case of Difficulty

Erigiisr
If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

	Initial Turn-on After Installation	
Symptom/Symptôme/Sintoma	Cause and Solution	
No function or display./Fonctions inopérantes ou pas d'affichage./La unidad no funciona ni hay visualización.	Car's ignition is off.     If connected following instructions, the unit will not operate with the car's ignition off.	
	Improper power lead connections.     Check power lead connections.	
	Blown fuse.     Check the fuse on the rear panel of the unit; replace with the proper value if necessary.	

#### In Case of Difficulty

	Englis
	Radio Mode
Symptom/Symptôme/Sintoma	Cause and Solution
Unable to receive stations./Impossible de recevoir les stations./Es imposible recibir emisoras.	No antenna or open connection in cable.     Make sure the antenna is properly connected; replace the antenna or cable if necessary.
Unable to tune stations in the seek mode./ Impossible d'accorder les stations en mode de recherche automatique./Es imposible sintonizar emisoras en el modo de búsqueda.	You are in a weak signal area.  Make sure the tuner is in the DX mode.  If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.  Check your antenna connections; make sure the antenna is properly grounded at its mounting location.  The antenna may not be the proper length.  Make sure the antenna is fully extended; if broken, replace the antenna with a new one.
Broadcast is noisy./Réception parasitée./La recepción es ruidosa.	The antenna is not the proper length. Extend the antenna fully; replace it if it is broken. The antenna is poorly grounded. Make sure the antenna is grounded properly at its mounting location.

	Tape Mode
Output sounds dull/Sortie de son atténuée./ El sonido se oye inestable.	The tape head needs cleaning. Clean the tape head. Incorrect Dolby NR in use. Check Dolby NR switch setting.

#### In Case of Difficulty

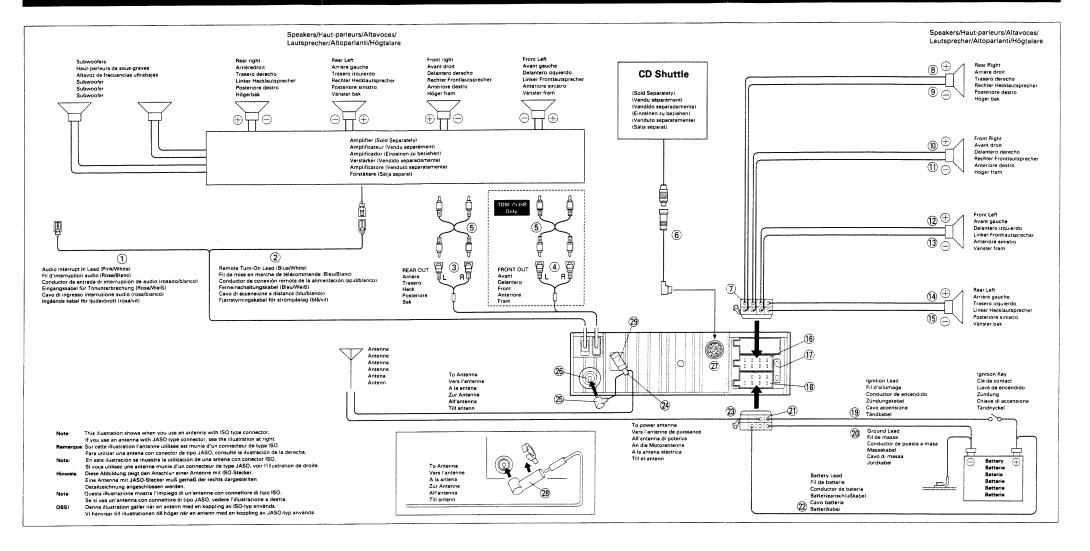
Eng	lish

	CD Shuttle Mode
Symptom/Symptome/Sintoma	Cause and Solution
CD Shuttle not functioning./Le changeur CD ne fonctionne pas./El cambiador de discos compactos no funciona.	Out of operating temperature range +50°C (+120°F) for CD.     Allow the car's interior (or trunk) temperature to cool.
CD playback sound is wavering./Le son de lecture de CD est déformé./El sonido de reproducción de un disco compacto oscila.	Moisture condensation in the CD Module.     Allow enough time for the condensation to evaporate (about 1 hour).
Unable to fast forward or backward./Avance rapide ou inversion impossibles./El disco no avanza ni retrocede.	The CD has been damaged. Eject the CD and discard it; using a damaged CD in your unit can cause damage to the mechanism.  The CD has been damage to the mechanism.
Sound skips due to vibration./Pertes de son dues à des vibrations./El sonido salta debido a las vibraciones.	Improper mounting of the CD Shuttle.     Securely re-mount the CD Shuttle.     Disc is very dirty.     Clean the disc.     Disc has scratches.     Change the disc.
Sound skips without vibration./Perles de son non dues à des vibrations./El sonido salta sin haber vibraciones.	Dirty or scratched disc.     Clean the disc; damaged discs should be replaced.
Single (8 cm) disc does not play./Impossible de reproduire un CD de 8 cm./No es posible reproducir un disco sencillo (8 cm).	Single CD adaptor is not used.     Attach a single CD adaptor (recommended by Alpine) to the single disc and insert into the CD magazine.

#### English

	Indication for CD Shuttle	
Indication/Indication/Indicación	Cause and Solution	
Н	Protective circuit is activated due to high temperature.     The indicator will disappear when the temperature returns to within opera- tion range.	
ERROR-01	Malfunction in the CD Shuttle.     Consult your Alpine dealer.     Press the magazine eject button and pull out the magazine. Check the indication. Insert the magazine again. If the magazine cannot be pulled out, consult your Alpine dealer.	
	Magazine ejection not possible.     Press the magazine eject button.     If the magazine does not eject, consult your Alpine dealer.	
ERROR-02	A disc is left inside the CD Shuttle.     Press the EJECT button to activate the eject function. When the CD Shuttle finishes the eject function, insert an empty CD magazine into the CD Shuttle to receive the disc left inside the CD Shuttle.	
NO MAGZN	No magazine is loaded into the CD Shuttle.     Insert a magazine.	
NO DISC	No indicated disc.     Choose another disc.	

#### Connections/Anschlüsse/Connexions/Collegamenti/Conexiones/Anslutningar



- Audio Interrupt In Lead (Pink/White) (TDM-7535R only)
   Remote Turn-On Lead (Blue/White) Connect this lead to the remote turn-on lead of your amplifier or signal processor.

  Rear Output RCA Connectors
  RED is right and WHITE is left.

  Front Output RCA Connectors (TDM-7535R only)

- RED is right and WHITE is left.
  RCA Extension Cable (Sold Separately) DIN Extension Cable (Sold Separately)

NOTE:
If the DIN Extension cable supplied with the CD Shuttle does not have an "L" shaped connector, connection may be hindered at certain installation locations. In this case, purchase a 491002

- Adaptor (sold separately).
  ISO Connector (Speaker Output, Female)
- Right Rear (+) Speaker Output Lead (Violet)
  Right Rear (-) Speaker Output Lead (Violet/Black)
  Right Front (+) Speaker Output Lead (Grey)
- Right Front (-) Speaker Output Lead (Grey/Black)
  Left Front (+) Speaker Output Lead (White)
  Left Front (-) Speaker Output Lead (White/Black) Left Rear (+) Speaker Output Lead (Green)
- Left Rear (-) Speaker Output Lead (Green/Black) ISO Connector (Speaker Output, Male)

- ISO Power Supply Connector (Male)

Switched Power Lead (Ignition) (Red) Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position.

- Ground Lead (Black) Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fas-
- tened using the sheet metal screw provided. ISO Power Supply Connector (Female) Battery Lead (Yellow)

- Connect this lead to the positive (+) post of the vehicle's battery.

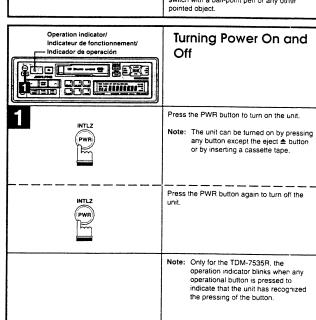
  Power Antenna Lead

  When loaded with a power antenna, connect to the +B terminal of the power antenna.
- Hook (Small) ISO Antenna Plug
- Antenna Receptacle
- **DIN Connector**
- Connect this to the DIN connector on the CD Shuttle.

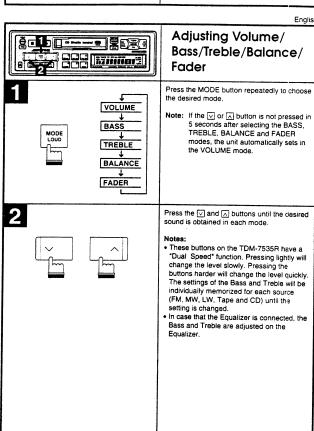
  JASO/ISO Antenna Adaptor (Included)

#### **Basic Operation**

Initial System Start-Up 1 When operating the unit for the first time after nstallation or after the vehicle's battery has been disconnected and reconnected, set the volume level to its minimum, then remove the detachable front panel. Press the Reset switch with a ball-point pen or any other pointed object

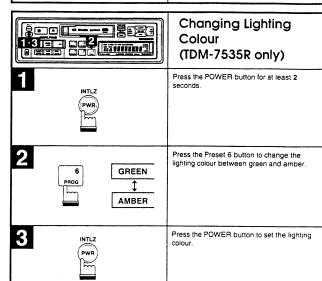


English



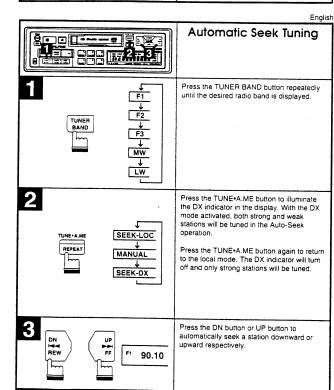
#### **Basic Operation**

Turning Loundness On/Off oudness introduces a special low- and highfrequency emphasis at low listening levels to compensate for the ear's decreased sensitively to bass and treble sound. Press the LOUD button for at least 2 seconds o activate or deactivate the loudness mode. MODE

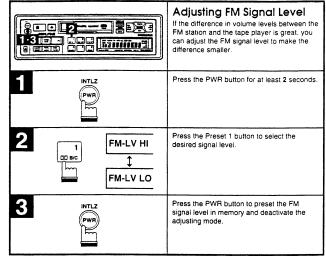


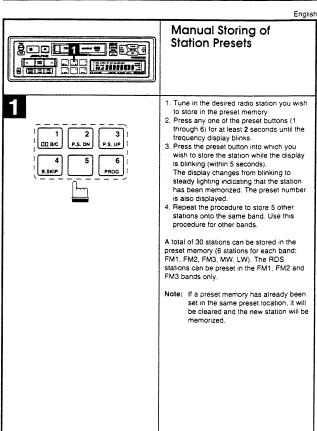
#### **Radio Operation**

English **Manual Tuning** Press the TUNER BAND button repeatedly F 1 **F** 2 TUNER F 3 ₩W LW 2 Press the TUNE•A.ME button repeatedly until "MANUAL" is displayed. SEEK-LOC REPEAT MANUAL Note: The initial mode is SEEK-DX. SEEK-DX 3 Press the DN or UP button to move downward or upward one step respectively until the desired station frequency is displayed. 90.10

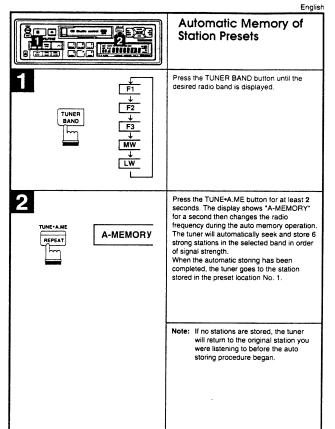


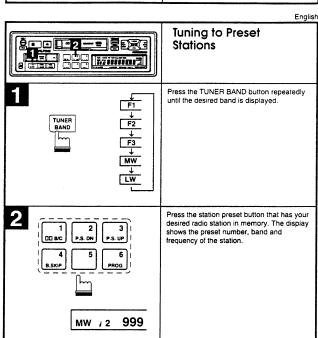
#### **Radio Operation**



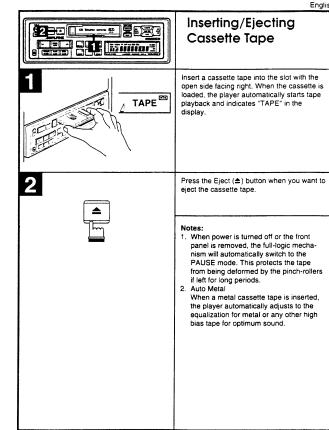


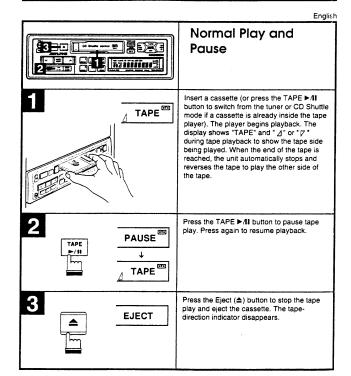
#### **Radio Operation**



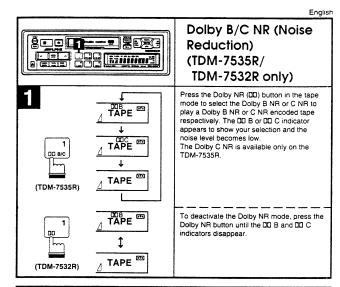


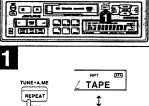
#### **Cassette Player Operation**





#### **Cassette Player Operation**

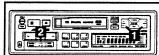




Repeat Play (TDM-7535R/ TDM-7532R only)

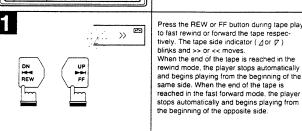
Press the REPEAT button to play back repeatedly the current programme being played. The RPT indicator appears and the programme will be played repeatedly.

Press the REPEAT button to stop the repeat play. The RPT indicator disappears.



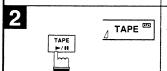
# Fast Forward and Rewind

English

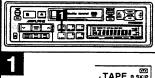


APT - TO

TAPE



Press the TAPE ►/II button to stop fast rewinding or forwarding to resume tape play. The tape side indicator changes to steady lighting.



Blank Skip (B.SKIP) (TDM-7535/ TDM-7532R only)

TAPE B.SKIP

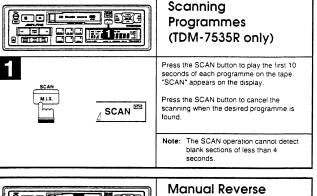
Press the B.SKIP button during tape play to skip over blank portions of the tape lasting 15 seconds or longer, "B.SKIP" appears on the display.

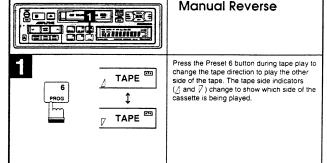
Press the B.SKIP button to cancel the blank skip mode. "B.SKIP" disappears from the display.

#### **Cassette Player Operation**

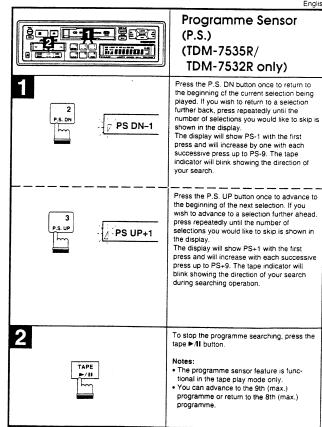
\_\_\_\_\_

English





En



#### **CD Shuttle Operation**

#### Controlling CD Shuttle (Optional)

If an optional Alpine 6-disc CD Shuttle is connected to the 8-pin DIN connector of the TDM-7535R/TDM-7532R/TDM-7531R, you can control the CD Shuttle using the TDM-7535R/TDM-7532R/TDM-7531R.

Notes: The controls on the TDM-7535R/ TDM-7532R/TDM-7531R for the CD operation are operative only when the CD Shuttle is interconnected with the TDM-7535R/TDM-7532R/ TDM-7531R.

DISC >/II D3 T05 2'58

1 2 2 3 P.S. DN P.S. UP

The display example shows when playing the Track 5 on the Disc 3.

Press the DISC ►/II button to activate the connected CD Shuttle.
The display shows the disc number and

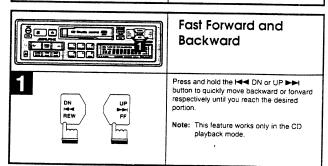
Press the Preset buttons to select the desired disc loaded in the CD Shuttle

3 D3 TO5 PAU

Press the DISC ►/III button to pause CD play. The display shows "PAU."
To resume CD play, press again.
The PAU indicator disappears.

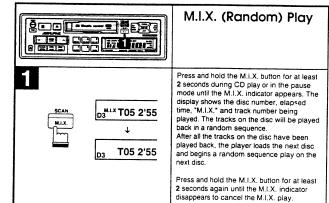
English

#### Music Sensor (M.S.) Skip Momentarily press the DN I◀◀ button once o return to the beginning of the current track. D3 T05 2'36 If you wish to return to the beginning of a track further back, repeatedly press until you reach the desired track. (The display D3 T05 0'00 example shows when you are playing the track No. 5 of the disc 3.) D3 T04 0'00 Press the UP >> button once to advance to the beginning of the next track. If you wish to advance to a track further ahead, press repeatedly until the desired track is reached D3 T05 2'36 lote: The music sensor feature is functional in the play or pause mode. D3 T06 0'00



#### **CD Shuttle Operation**

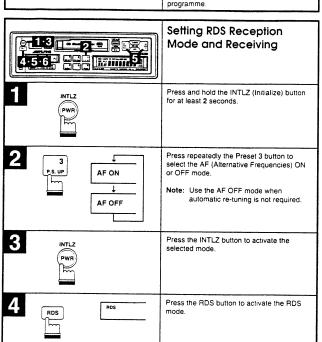
Repeat Play on Single Track or Entire Disc Press the REPEAT button to display "RPT" or "RPT ALL" to play back repeatedly the current track being played or the entire disc REPEAT Note: Single track cannot be repeated RPT during M.I.X. play. RPT ALL

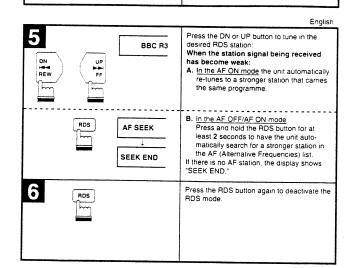


#### RDS (Radio Data System)

English

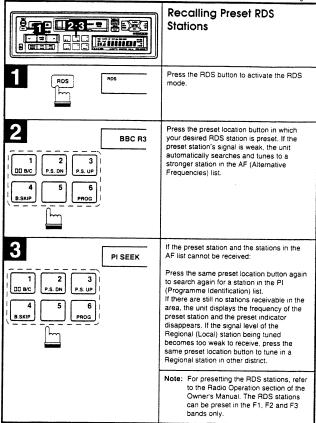
The RDS (Radio Data System) is a radio information system using the 57 kHz subcarrier of regular FM broadcast. The RDS allows you to receive a variety of information such as traffic information, station names, and to automatically re-tune to a stronger transmitter that is broadcasting the same programme.





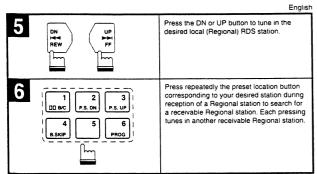
#### RDS (Radio Data System)

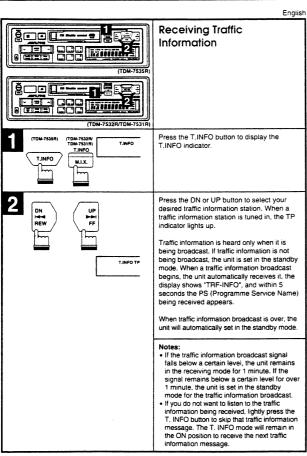
English



Receiving RDS Regional (Local) Stations 913 IF6 - ■ BEE Press and hold the INTLZ button for at least PWR Press the Preset 4 button to turn on or off the REG (Regional) mode.
In the REG ON mode, the unit automatically REG ON B.SKIP keeps receiving the related local RDS REG OFF 3 Press the INTLZ button to activate the Press the RDS button to activate the RDS 4 RDS

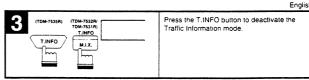
#### RDS (Radio Data System)

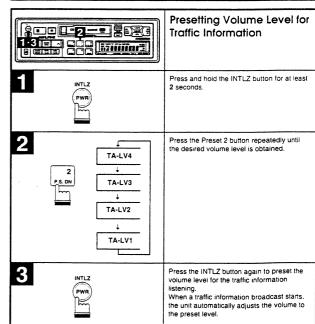




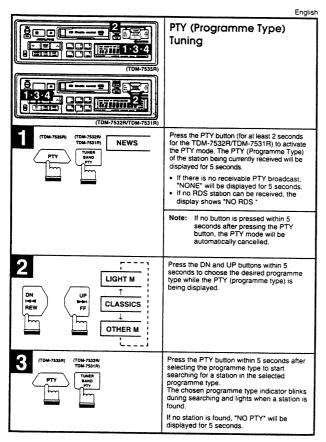
#### **RDS (Radio Data System)**

English Receiving Traffic Ř. □ □ III ··· Information While Playing Casstte or Radio 13 Press the T.INFO button until the T.INFO T.INFO M.I.X. Press the DN and UP buttons to select a traffic information station if necessary. 2 F1 101.50 . When a traffic information broadcast starts. When a traftic information broadcast star the unit automatically mutes the cassette tape or the regular FM broadcast. When the traffic information broadcast finishes, the unit automatically returns to the original source play before the traffic information broadcast began. DN H<del>4</del>≪ REW When traffic information stations When traffic information stations cannot be received:
In the tuner mode:
When the TP signal can no longer be received, an alarm will be sounded after 1 minute.
In the tape mode:
When the TP signal can no longer be received, the traffic information station of another frequency will be selected automatically. automatically. The receiver is equipped with the EON (Enhanced Other Networks) function in order to keep track of additional alternative frequencies to the AF list. If the station being received does not broadcast the traffic information, the receiver automatically tunes in the related station that broadcasts the traffic information, when if continuously times in the related station that broadcasts the traffic information, when if continuously times in the related in the station of information when it occurs





#### RDS (Radio Data System)

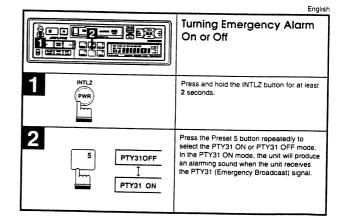


English

TDM-7533FN (TDM-7533FN)
TDM-7535FN (TDM-7535FN)
TDM-7535FN (TDM-7535FN)
TDM-7535FN (TDM-7535FN)
TDM-7535FN (TDM-755N)
TDM-7535FN (TDM-75N)
TDM-7535FN (TDM-75N)
TDM-7

#### RDS (Radio Data System)

English Priority PTY (Programme ğoo [---- 2624 Type) (TDM-7535R ONLY) This function allows presetting of a programme type such as music category, news, etc. You can listen to a programme in the preset programme type as the unit automatically gives priority to the preset programme type when it begins broadcasting, and interrupts the programme you are currently listening. This feature is functional when your unit is set to a mode automatically gives priority to the preset Press and hold the PTY button for 2 seconds to activate the PRIORITY PTY PRIO PTY PTY "PRIO PTY" is displayed for 2 seconds and then the program type for 5 seconds. The initial setting is "NEWS." "NEWS Note: If no button is pressed within 5 seconds after pressing the PTY button, the PRIORITY PTY mode is automatically cancelled. 2 Press the DN or UP button within 5 seconds MEWS while \*NEWS\* is being displayed to choose a desired programme type. Then press and hold the PTY button for 2 seconds. The PRIORITY PTY function will activate. DN I◀◀ REW BBC R3 3 Press and hold the PTY button for 2 seconds to activate the PRIORITY PTY To change the program category, perform the step 2.
To disable the PRIORITY PTY function, press the PTY button for less than 2 Note: In the PRIORITY PTY function, unlike in the T.INFO function, the volume does not increase during operation.



### **Disassembly Instructions**

#### 1. Removal of Nose Unit

(1) Refer to the Owner's Manual (Part No. 68P61329W47).

#### 2. Removal of Front Escutcheon

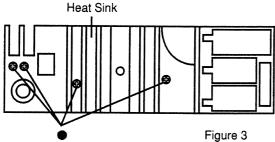
 After removal of Assy., Face Plate and Top Cover, remove the Hooks (a) as shown in Figure 1

#### 3. Removal of Cassette Deck

- (1) After removal of Front Escutcheon, remove three screws marked "○" and the Hook (b) as shown in Figure 2.
- (2) Disconnect one Connector from the Cassette Deck.

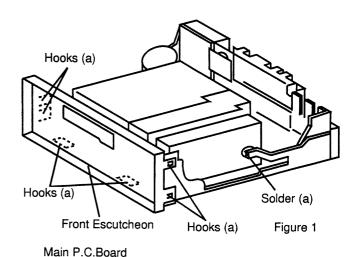
#### 4. Removal of Main P.C.Board

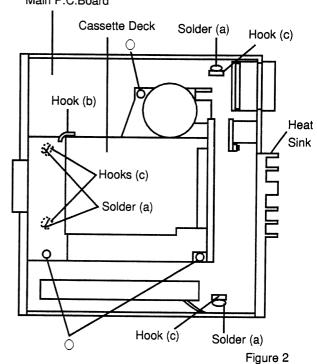
- (1) Remove the four screws marked "●" as shown in Figure 3.
- (2) Remove the solder (a) and Hooks (c) as shown in Figure 1, 2.
- (3) Disconnect two Connectors from the Main P.C.Board.

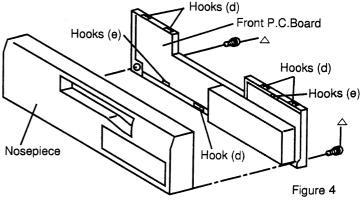


#### 5. Removal of Front P.C.Board

- (1) After removal of Nose Unit, remove two screws marked "△" and the Hooks (d) as shown in Figure 4.
- (2) Remove the Hooks (e) as shown in Figure 4.



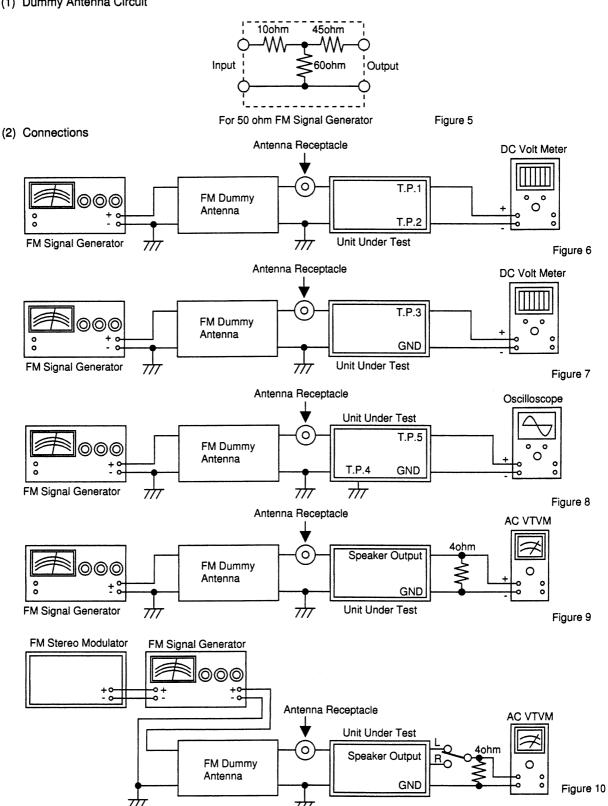




# **Adjustment Procedures**

#### 1. FM SECTION

(1) Dummy Antenna Circuit



# (3) Control Settings Power Switch ON Fader Control Center Position Balance Control Center Position Treble / Buss Control Center Position Band Switch FM Others OFF

#### (4) Adjustment Procedures

Step	Description	on	Connection	Signal Generator	Dial Control	Test Point	Adjustment
1	IF Adjustment		Figure 6	98.1 MHz, 72dB (Mod. OFF)	98.1MHz	T.P.1 T.P.2	Adjust L2101 to 0 ±15mV.
2	Signal Meter Adjustment		Figure 7	98.1MHz, 46dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	T.P.3	Adjust VR2101 to 3.5 ±0.1V
3	3 Seek Stop Adjustment		Figure 8	98.1MHz, 30dB (Mod. OFF)	98.1MHz	T.P.4 T.P.5	Adjust VR2104 for the waveform changing to maximum output. Figure: Waveform of T.P.5 output.  MAX.  Stop the adjust VR2104 at this time.
4	Noise Level Adjustment	(1)	Figure 9	98.1MHz, 72dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	Speaker Output	Adjust MAIN VOLUME (S411 ( ○□), S422 ( ○□), S418 ( △), S428 ( △)) to obtain 2V output. This value is 0dB.
		(2)	Figure 9	98.1MH, -19dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	Speaker Output	Adjust VR2105 to $-25 \pm 3 \mathrm{dB}$ output at SG level minimum.
5	Stereo Blend Adjustment (Lch)		Figure 10	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	Speaker Output	Adjust VR2102 for Lch and Rch output level difference to be 8 ±2dB.
6	Stereo Separation Adjustment (Lch)		Figure 10	98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	Speaker Output	Adjust VR2103 for Rch output to be minimum, and confirm Lch and Rch output level difference is more than 20dB.
7	Stereo Blend Adjustment (Rch)		Figure 10	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	Speaker Output	Proceed same adjustment under step 5.
8	Stereo Separation Adjustment (Rch)		Figure 10	98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	Speaker Output	Proceed same adjustment under step 6 by alternating Lch and Rch.

Note :  $\bigcirc$  : For TDM-7531R Model Only,

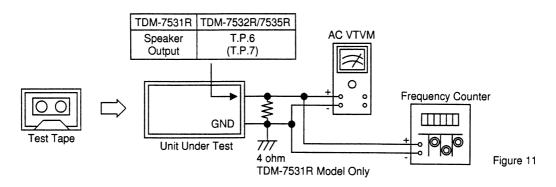
☐ : For TDM-7532R Model Only ,

 $\triangle$ : For TDM-7535R Model Only,

Others: Common.

#### **2 TAPE PLAYER SECTION**

#### (1) Connections



(2) Control Settings

Power Switch	ON
Fader Control	Center Position
Balance Control	Center Position
Treble / Buss Control	Center Position
Others	OFF

#### (3) Adjustment Procedures

Step	Description	Test Tape	Connection	Test Point		Adjustment Point	Adjustment	
1	Head Azimuth	MTT-114NB	Figure 11	0	Speaker Output	Head Azimuth Adjustment Screws	Adjust for Max. and same level output at Normal and Reverse positions.	
	Adjustment	(14kHz)		□ △	T.P.6 (Lch) T.P.7 (Rch)	(Figure 12)		
2	Dolby Level Adjustment (TDM-7532R/ 7535R Model Only)	MTT-150 (400Hz)	Figure 11	T.P.6 (Lch) T.P.7 (Rch)		VR201 (Lch) VR202 (Rch)	Adjust for 245mV ( □)/388mV( △) ± 1dB at T.P.6 (Lch) and T.P.7 (Rch).	
	Tape Speed Adjustment	MTT-111N (3kHz)	Figure 11	0	Speaker Output	Tape Speed	Adjust for 2,970 to 3,090Hz at T.P.6 (T.P.7).	
3				□ <b>△</b>	T.P.6 (Lch) or T.P.7 (Rch)	Adjustment (Figure 13)		

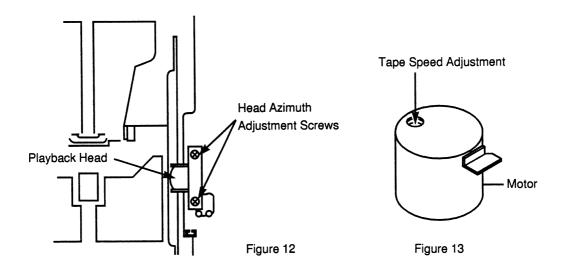
Note : ○ : For TDM-7531R Model Only,

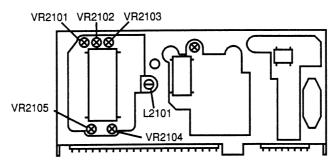
☐ : For TDM-7532R Model Only ,

△ : For TDM-7535R Model Only,

Others: Common.

# **Adjustment Locations**





FM / MW/LW Tuner Unit (FE001)

Note : For the Adjustment parts (S411( $\bigcirc$  $\square$ ), S422( $\bigcirc$  $\square$ ), S418( $\triangle$ ), S428( $\triangle$ ), VR201, VR202) and Test Points, refer to the Parts Layout on P.C.Boards and Wiring Diagram.

# **Description of IC Terminal**

45609W26 : IC501

No.	Symbol						
1	NOSE ON	1/0	Terminal Description				
			Front panel detection terminal.				
2	AV <sub>REF</sub>	1	Reference voltage input terminal for A/D converter.				
3	$V_{DD}$	_	V <sub>DD</sub> terminal.				
5	AV REF OUT	0	Reference voltage output terminal to A/D converter.				
6	PLAY SOL	0	Play Solenoid control signal output terminal in deck mechanism.				
7	RF SOL	0	RF Solenoid control signal output terminal in deck mechanism.				
8	EJECT SOL	0	Eject Solenoid control signal output terminal in deck mechanism.				
9	MOTOR CONT	0	Determins rotation direction of motor in deck mechanism.				
10	O. MOTOR	0	Determins start and stop of motor in deck mechanism.				
11	FOR/REV	0	FOR/REV indicator output terminal.				
12	O. FAST	0	Gain control signal output terminal to MS IC.				
13	PACK IN	ī	Switch to detect cassette is installed into cassette holder or not.				
14	M.S.DET	1	Music ON/OFF switching signal input terminal.				
15							
16	GND	_	GND short.				
17							
18	AREA0						
19	AREA1	1	Initial setting input terminal.				
20	TP ALARM	0	ALARM signal output terminal (at TP OFF ALARM).				
21	NC	_	Open.				
22	PWR IC ON	0	Stand-by control signal output terminal to Power IC.				
23	POWER CONT	0	Power control signal output terminal to Audio line and lighting.				
24	A.MUTE	0	Audio mute signal output terminal.				
25							
26	NC	_	Open.				
27							
28	IN INT	ı	INT signal input terminal.				
29	CHG D-OUT	0	BUS line output terminal to CD changer.				
30	E.VOL. CLK	0	Serial clock data output terminal to Electrical Volume.				
31	E.VOL. DATA	0	Serial data output terminal for Electrical Volume.				
32	NC	_	Open.				
33	GND	_	GND short.				
34	NC		Open.				
35	DOLBY C	0	Dolby C NR ON/OFF signal output terminal.				
36	DOLBY B		Dolby B NR ON/OFF signal output terminal.				
37	LCD CE		CE signal output terminal to LCD Driver.				
			CE signal output terminal to DTS microcomputer (IC504).				

No.	Symbol	I/O	Terminal Description			
39	DTS START	0	Data sync signal output terminal to DTS microcomputer (IC504).			
40	NOSE POWER	0	Power control signal output terminal to Front panel.			
41	LED IND	0	ction indicator output terminal.			
42	LCD CLK	0	ock signal output terminal to LCD Driver.			
43	GRN/ORG	0	ILLUMI Control signal output terminal.			
44	LCD DATA	0	Data output terminal to LCD Driver.			
45	LCD INH	0	INH signal output terminal to LCD Driver.			
46	DTS MUTE	ı	Audio mute signal input terminal from DTS microcomputer (IC504).			
47	ACC+5	ı	ACC power supply detection terminal.			
48	CHG D-IN	1	BUS line input terminal to CD changer.			
49	REMOCON	1	Data input terminal from Remocon receiver.			
50	DTS STATUS	1	Serial data input terminal from DTS microcomputer (IC504).			
51	DTS CMD	0	Serial data output terminal to DTS microcomputer (IC504).			
52	DTS SCK	0	communication sync signal output terminal to DTS microcomputer (IC504).			
53	BATT+5V	1	ATT detector terminal.			
54	54 GND —		GND short.			
55	GIVD		GIAD SHOTE			
56	NC	_	Open.			
57	GND	_	GND short.			
58	X1	ı	Input terminal for system clock OSC.			
59	X2	0	Output terminal for system clock OSC.			
60	RESET	1	System reset signal input terminal.			
61						
₹	GND	-	GND short.			
75						
76	PACK DOWN	l I	Switch to detect cassette holder is moved down completely.			
77	RUN DET	1	Signal showing take-up reel is roating or not.			
78	KEY-IN AD0					
79	KEY-IN AD1		KEY input terminal.			
80	KEY-IN AD2					

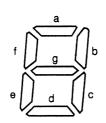
#### 75099W04: IC504

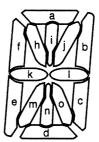
No.	Symbol	I/O	Terminal Description			
1	LW	0	V band selection terminal.			
2	LO/DX	0	ocal/DX control terminal.			
3	NC	_	Open.			
4	AV <sub>SS</sub>	_	GND potential terminal for A/D converter.			
5	LPF SW	0	.PF time constant switching terminal at AF CHECK/SW.			
6	IF MUTE	0	Mute signal output terminal at AF check.			
7	AV <sub>REF1</sub>	1	Reference voltage input terminal for A/D Converter.			
8	PLL UP	_	Pull up terminal.			

No.	Symbol	1/0	Terminal Description			
9	NO		0			
10	NC		Open.			
11	PLL CLK	0	Clock output terminal to PLL.			
12	PLL DATA	0	Data output terminal to PLL.			
13	PLL CE	0	Data communication control signal output terminal to PLL.			
14	DTS MUTE	0	Audio mute output terminal.			
15	DTS START	ı	DTS data start input terminal.			
16	DTS CMD	ı	Serial data input terminal from Main microcomputer (IC501).			
17	DTS STATUS	0	Serial data output terminal to Main microcomputer (IC501).			
18	DTS CLOCK	ı	Communication data sync signal input terminal form Main microcomputer (IC501).			
19						
7	NC	_	Open.			
32						
33	V <sub>SS</sub>		GND potential terminal.			
34						
}	NC		Open.			
57						
58	FM/AM	0	FM/AM power control terminal.			
59	AUDIO IN	١	Audio xerox input terminal.			
60	RESET	ı	System reset input terminal.			
61	RDS CLK	ı	RDS clock input terminal.			
62	RDS DATA	ı	RDS data input terminal.			
63	DTS CE	I	Terminal to make Main microcomputer (IC501) in stand-by status.			
64						
}	NC	Open.				
66						
67	50K REF	0	L.P.F. swithing output terminal at RDS mode.			
68	$V_{DD}$	_	Positive power supply terminal.			
69	X2	0	Output terminal for system clock OSC.			
70	X1	ı	Input terminal for system clock OSC.			
71	V <sub>SS</sub>	_	GND short.			
72	NC	_	Open.			
73	PLL D-IN	1	Data input terminal from PLL			
74	AV <sub>DD</sub>		Analog power supply terminal for A/D converter.			
75	AV <sub>REF0</sub>	ı	Reference voltage input terminal for A/D converter.			
76	S.METER	ı	Signal meter input terminal.			
77	ADJ-ON	ı	Port detects adjoining rejection interference of station.			
78	MULTI PATH	1	Port detects multi path interference of station.			
79	ST	1	ST signal input terminal.			
80	SD	1	Station detector signal input terminal for FM/AM (MW/LW).			

# **LCD Display**

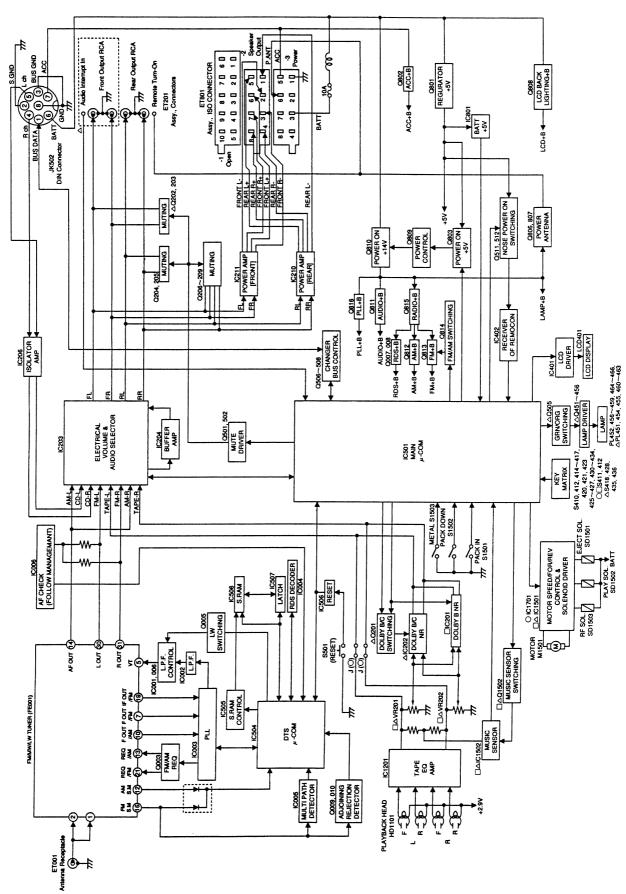




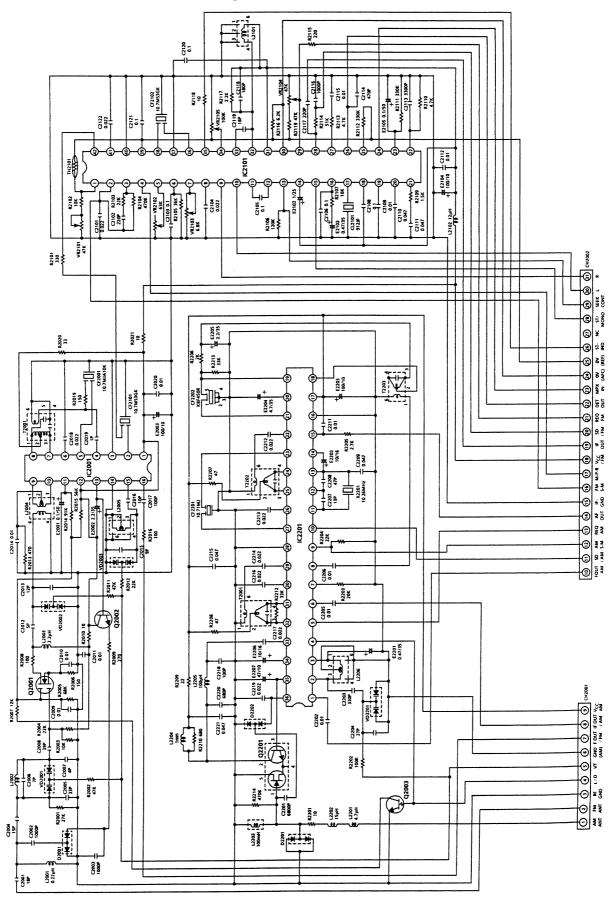


PIN No.	COM1	COM2	сомз	PIN No.	COM1	COM2	СОМЗ
1				39			СОМЗ
2				40		COM2	
3	1-h	1-k	1-m	41	COM1		
4	1-j	1-1	1-0	42	010	ST	LOUD
5	2-j	2-l	2-c	43	DX	B.SKIP	MO
6	3-1	3-g	3-е	44	11-b	11-c	11-d
7				45	11-j	11-1	11-o
8				46	11-a	11-i, 11-n	11-m
9				47	11-h	11-k	11-e
10				48	DEFEAT	11-1	10-c
11				49	10-j	10-i, 10-n	10-d
12				50	10-f	10-k	10-е
13				51	,		•
14	5-b	5-1	5-0	52	9-a	9-b	9-c
15	6-h	6-k	6-е	53	9-f	9-k	9-m
16	6-a	6-i, 6-n	6-m	54	ППС	8-b	9-e
17	7-1	7 <b>-e</b>	6-d	55	8-h	8-k	8-m
18	7-h	7-k	7-m	56	DDB	7-b	7-c
19	7-j	7-1	7-0	57	7-a	7-i, 7-n	7-d
20	8-1	8 <del>-e</del>	8-d	58	ALL	6-b	6-c
21				59	6-j	6-i	6-0
22				60	RPT	6-f	5-c
23	8-a	8-i, 8-n	8-0	61	5-j	5-i, 5-n	5-d
24	8-j	8-1	8-c	62	5-a	5-h	5-m
25	9-h	9-i, 9-n	9-d	63	5-f	5-k	5-е
26	9-j	9-1	9-0	64	TP	4-b	4-c
27	10-a	10-h	10-m	65	4-j	4-1	4-0
28	10-b	10-1	10-0	66	4-a	4-i, 4-n	4-d
29				67	4-h	4-k	4-m
30				68	4-1	3-b	4-0
31				69	M.I.X.	3-a, 3-d	3-c
32				70	T.INFO	2-b	1
33				71	2-a	2-i, 2-n	2-0
34				72	2-h	2-k	2-m
35				73	2-1	2-0	2-d
36				74	PTY	1-b	1-c
37				75	1-a	1-i, 1-n	1-d
38				76	RDS	1-f	1-0

# **Block Diagram**



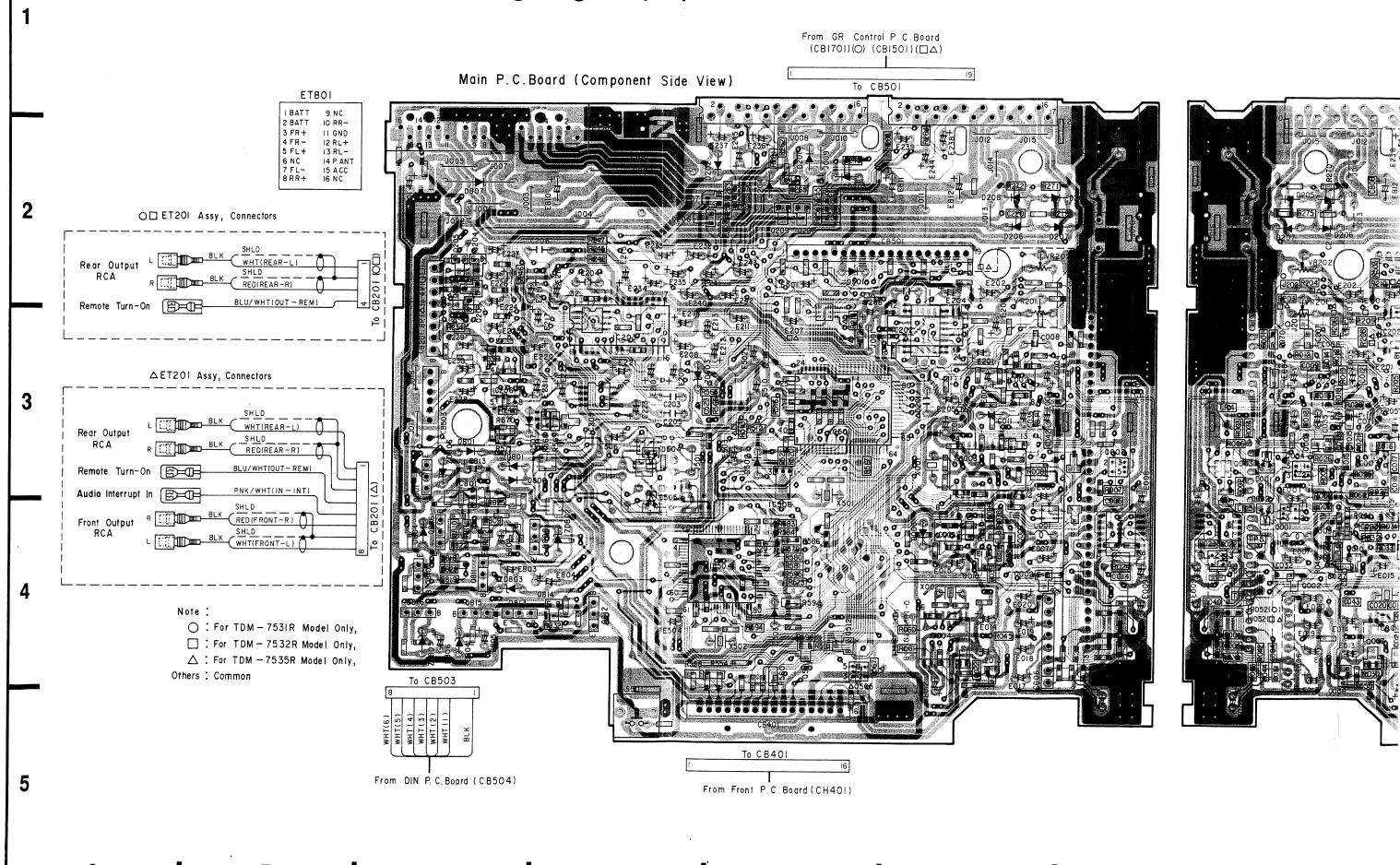
# **Tuner Schematic Diagram**



# **MEMO**

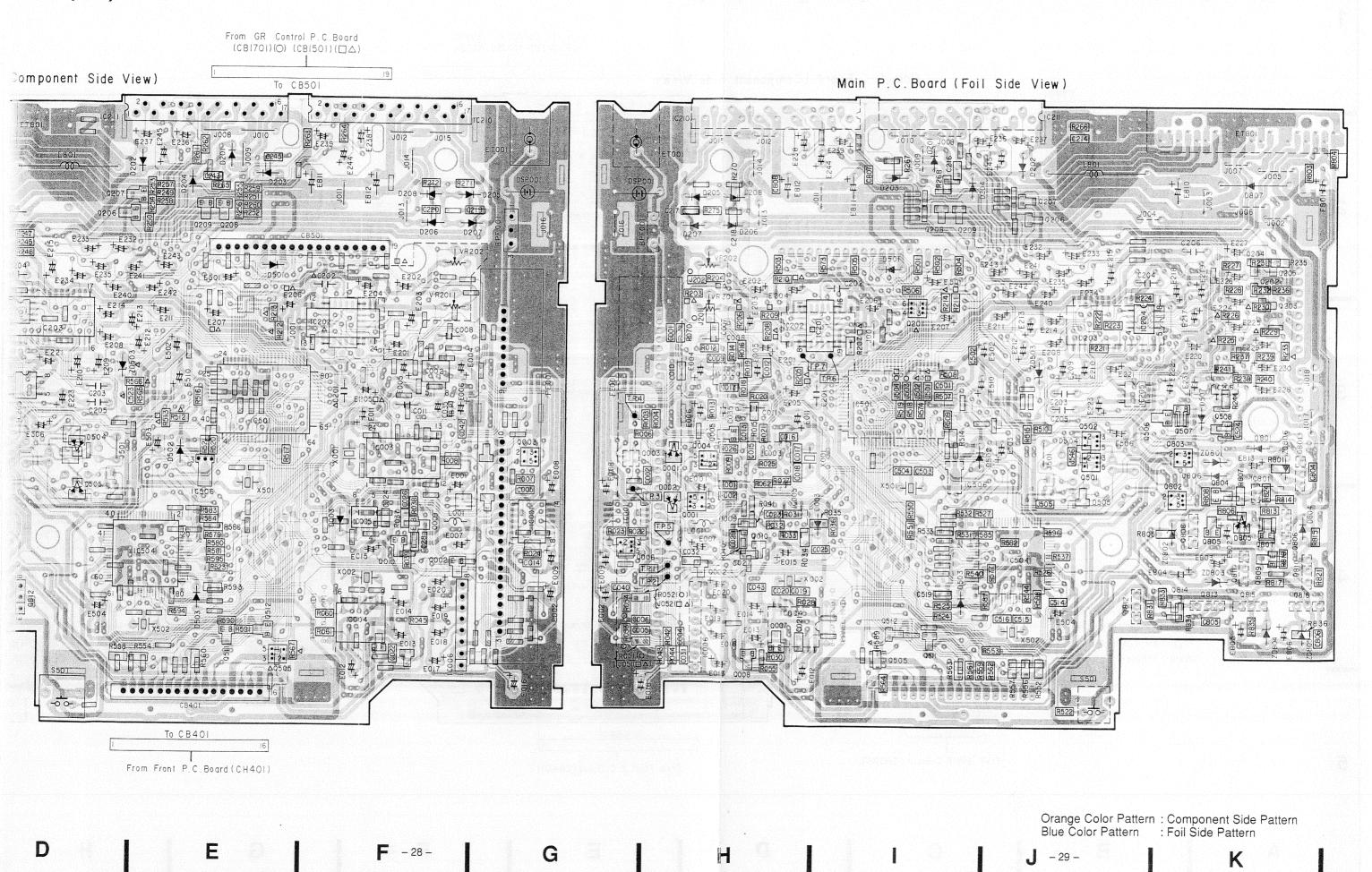
# Parts Layout on P.C. Boards and Wiring Diagram (1/2) From GR Control P.C.Board (CBI701)(○) (CBI501)(□△) Main P.C. Board (Component Side View) ET801 11 GND 12 RL+ 13 RL-14 P. ANT 15 ACC 16 NC ○□ ET201 Assy, Connectors Rear Output Remote Turn-On △ET201 Assy, Connectors Rear Output Front Output RCA From DIN P. C. Board (CB504) From Front P.C.Board (CH401)

# Parts Layout on P.C. Boards and Wiring Diagram (1/2)

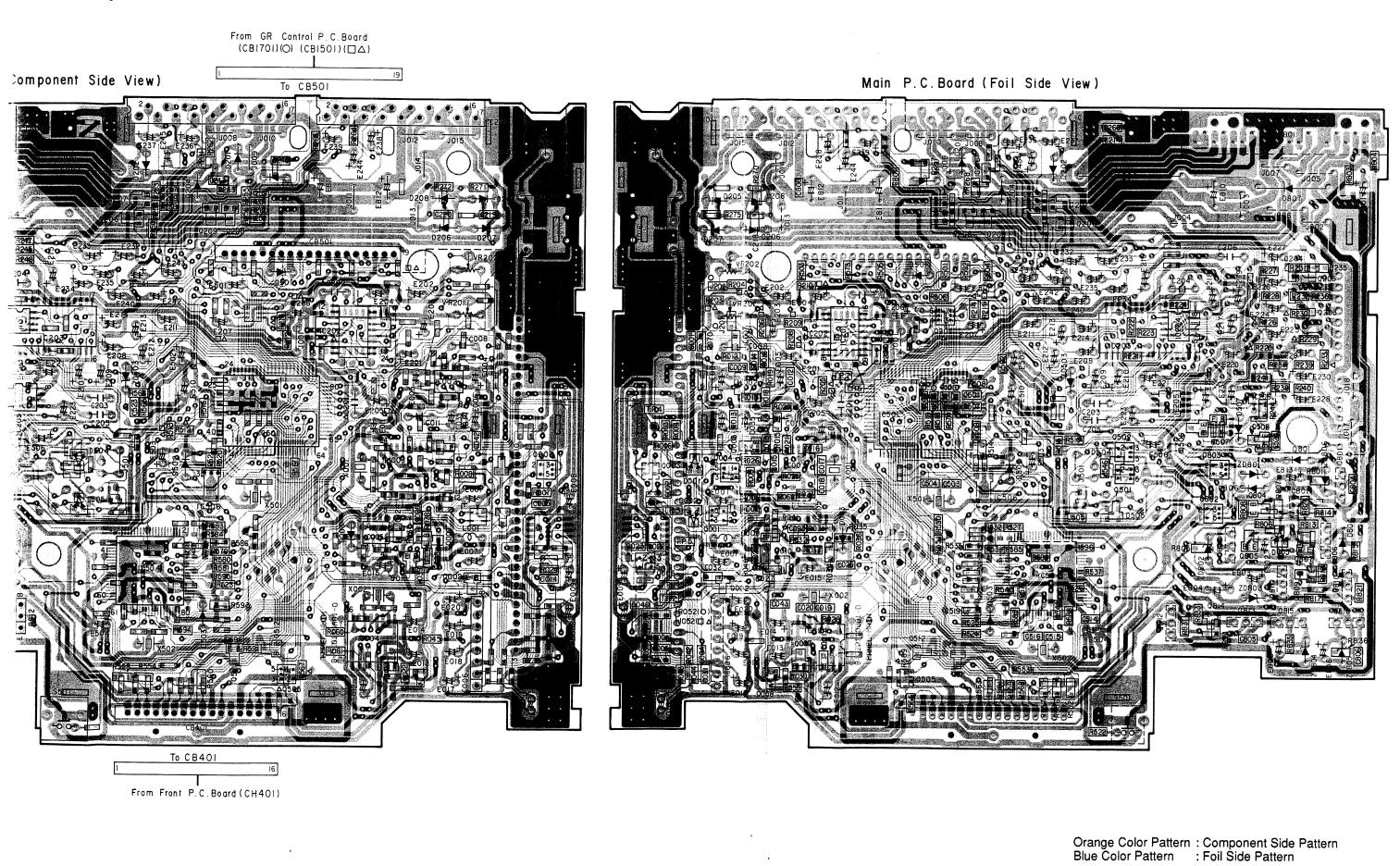


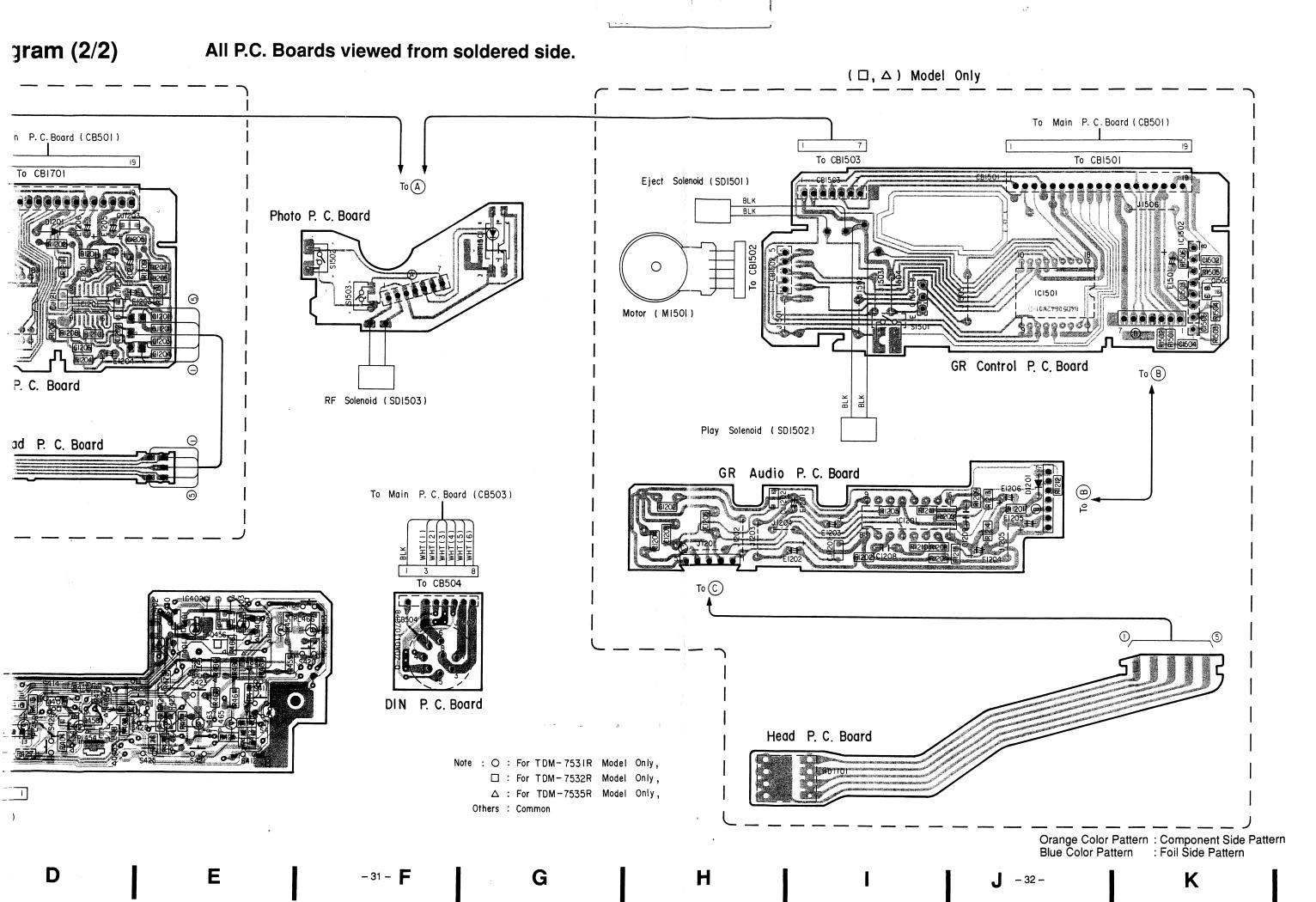
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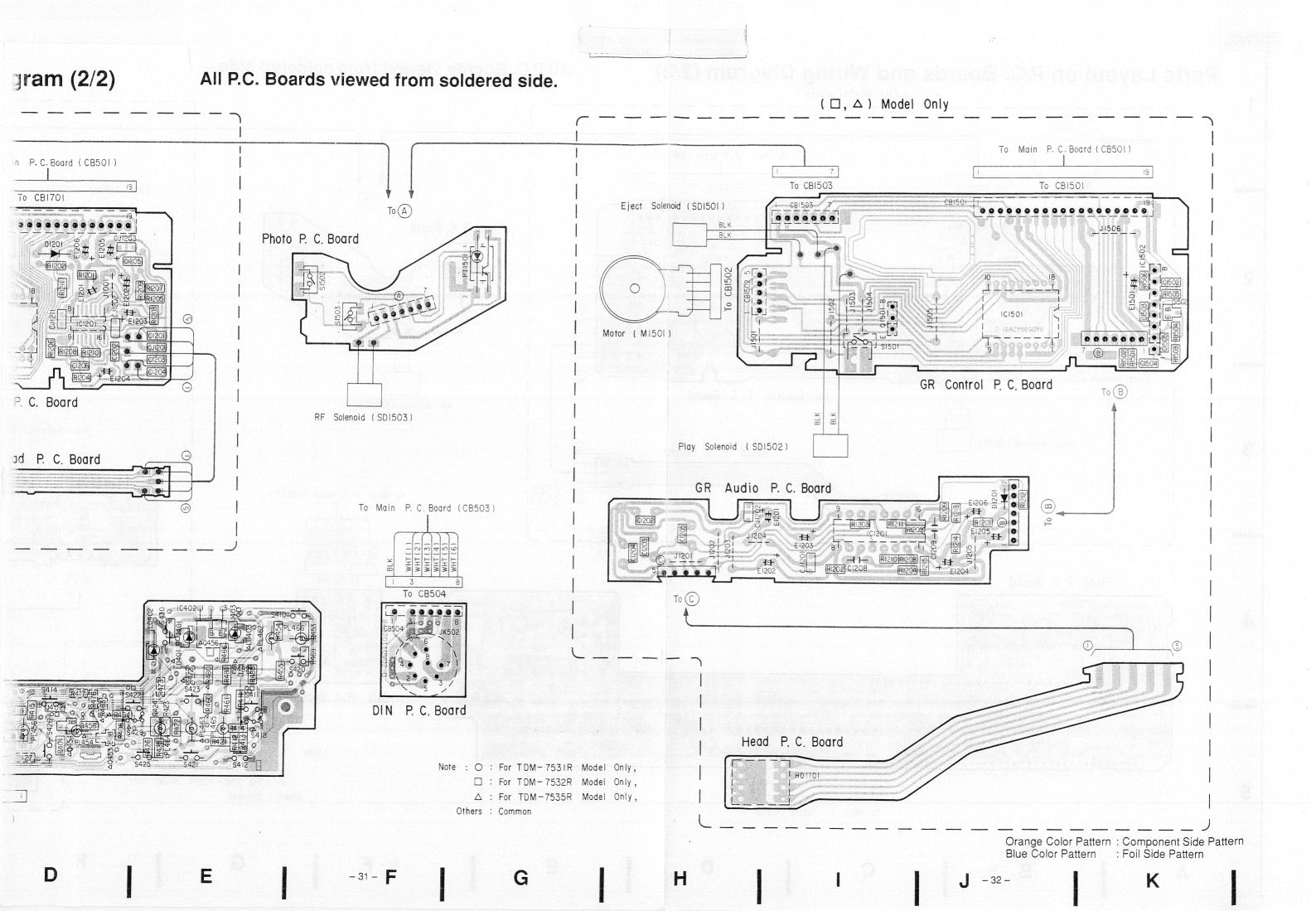
# ram (1/2)

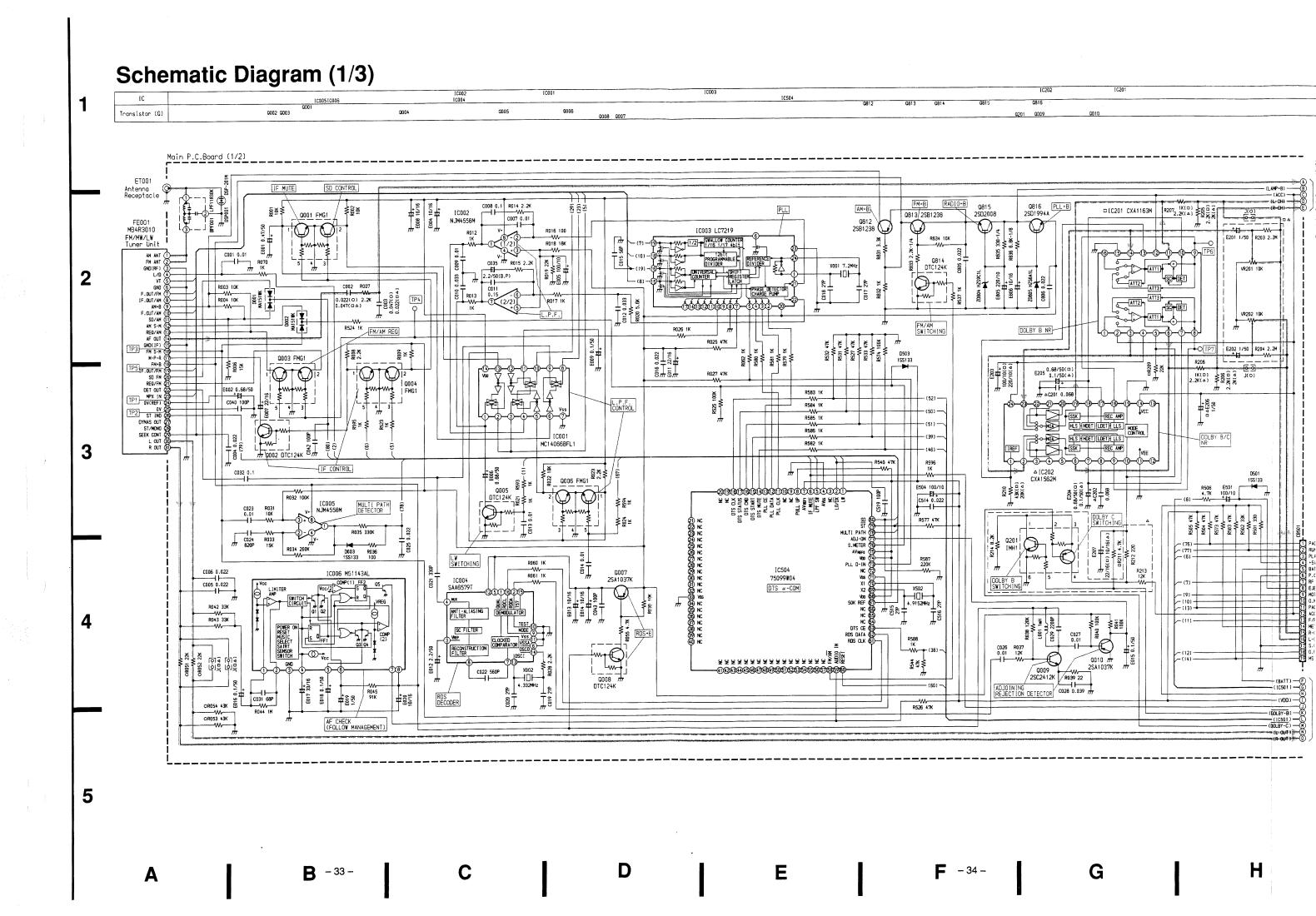


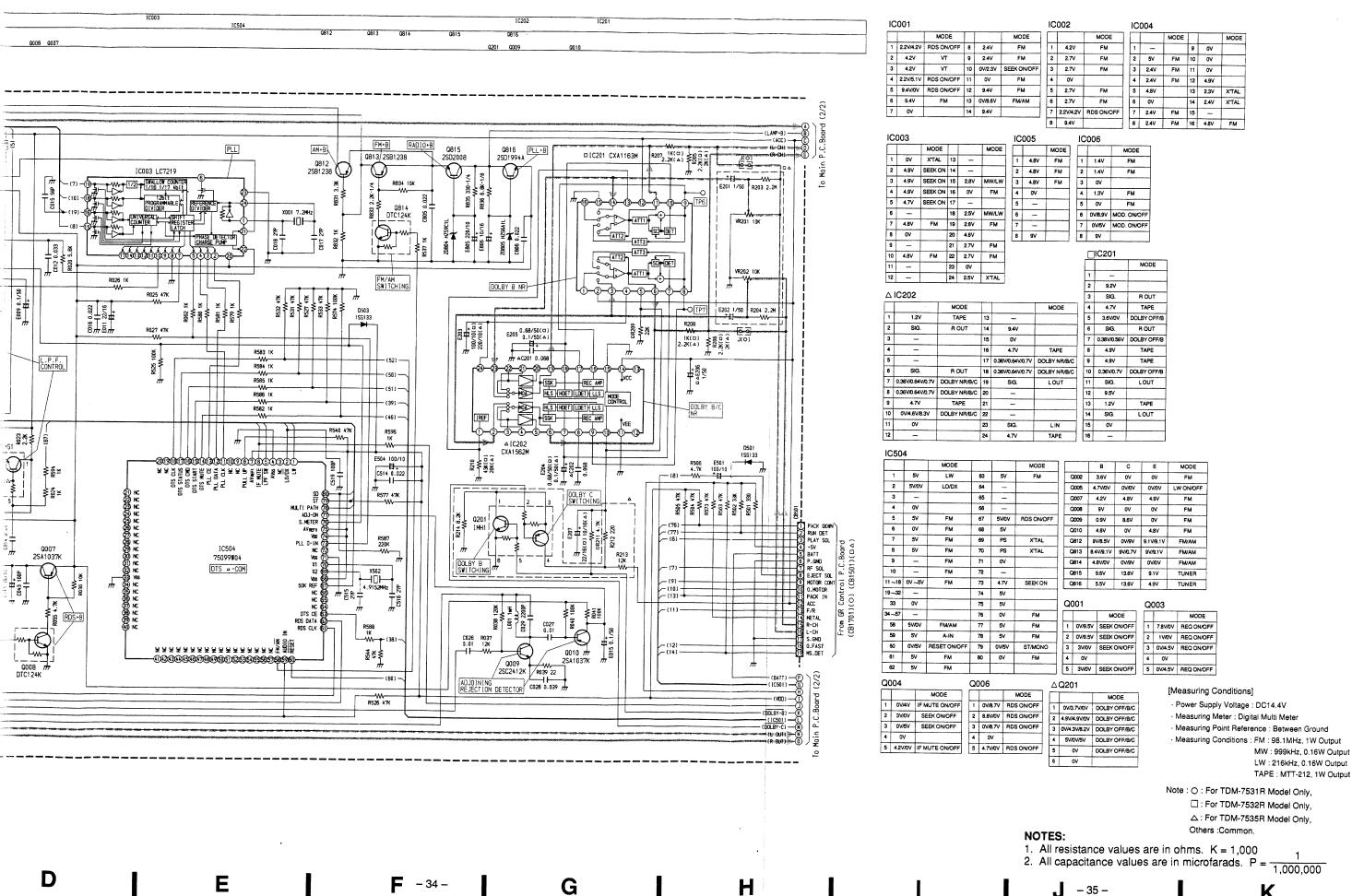
# ram (1/2)





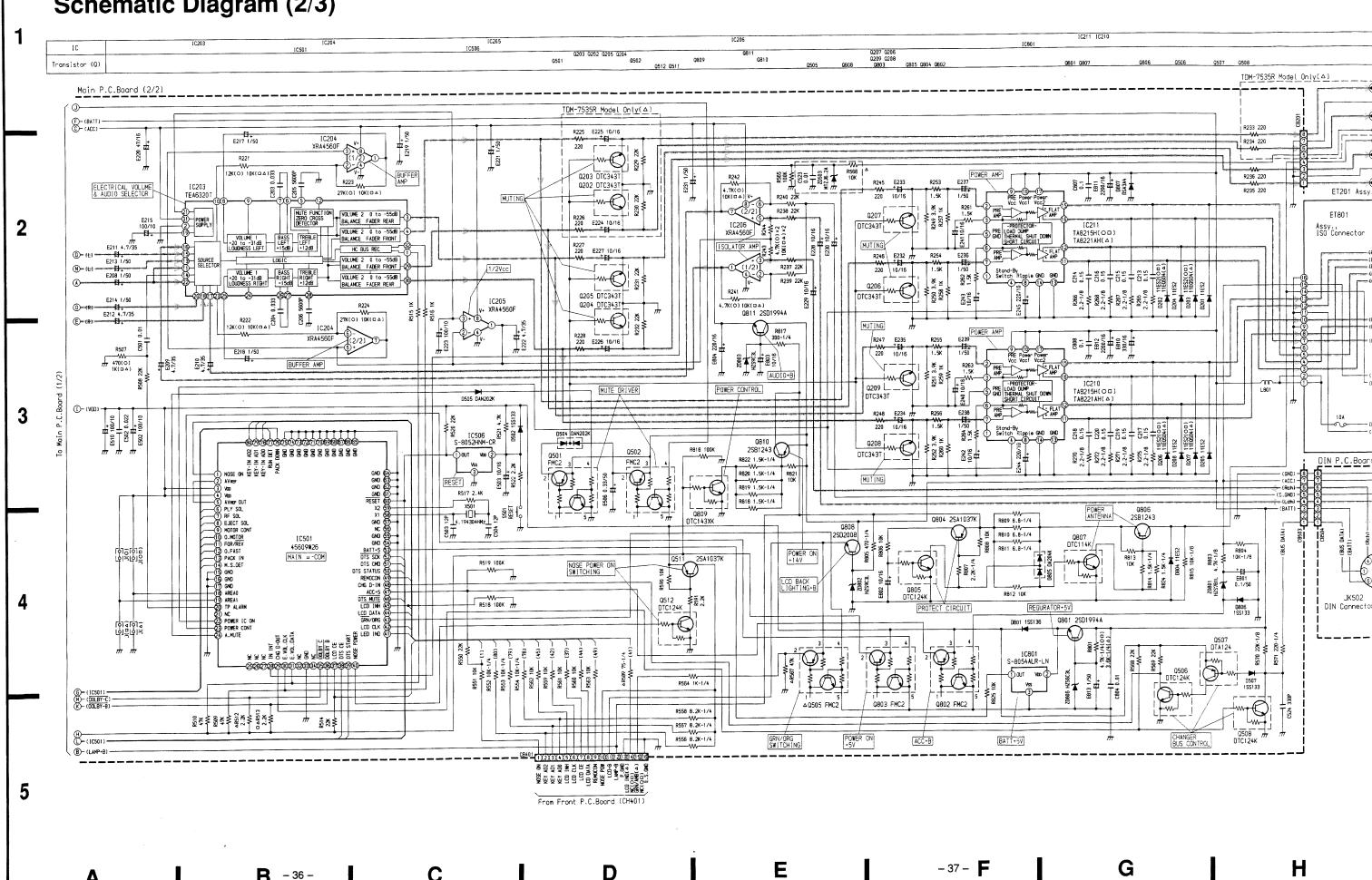


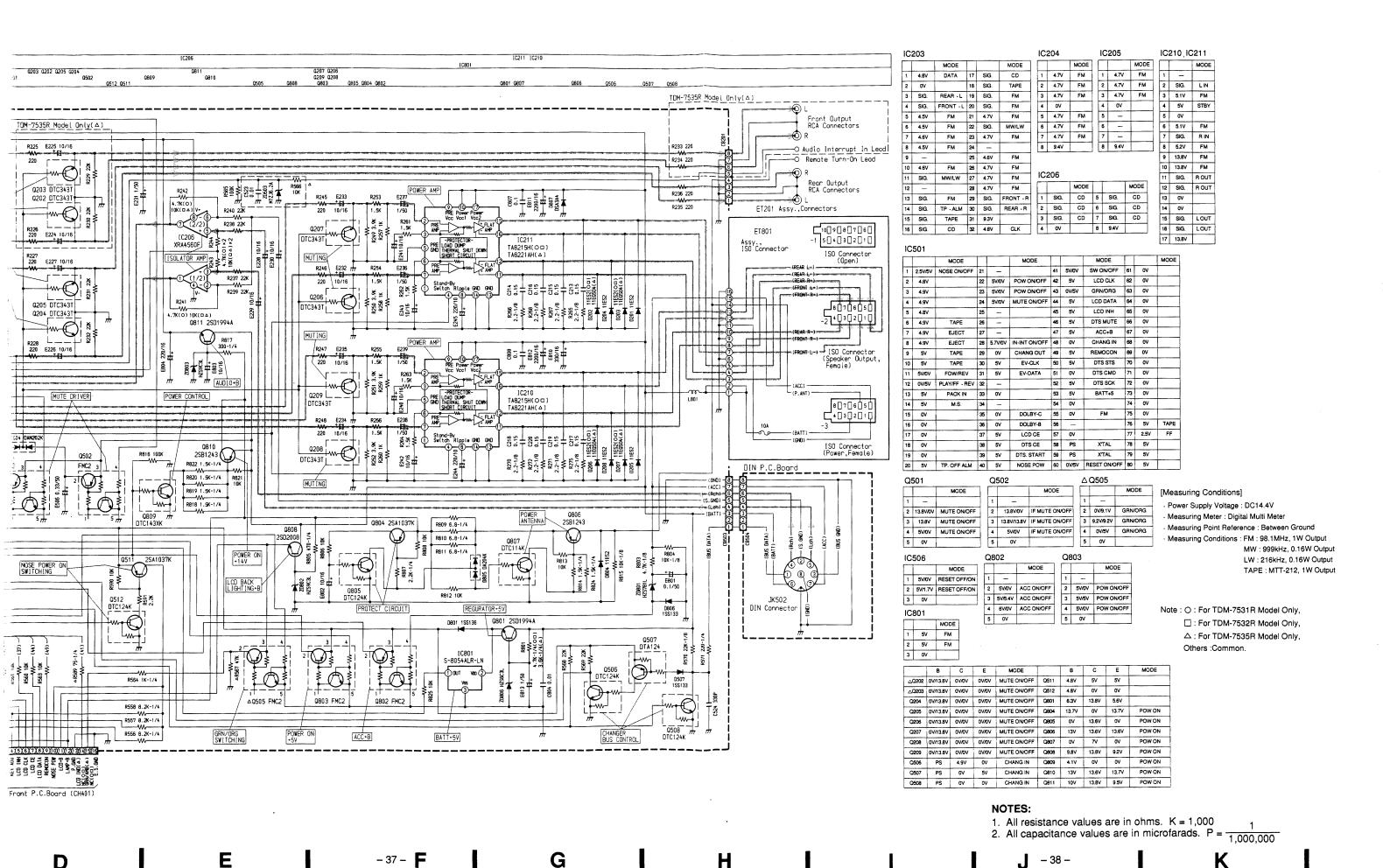


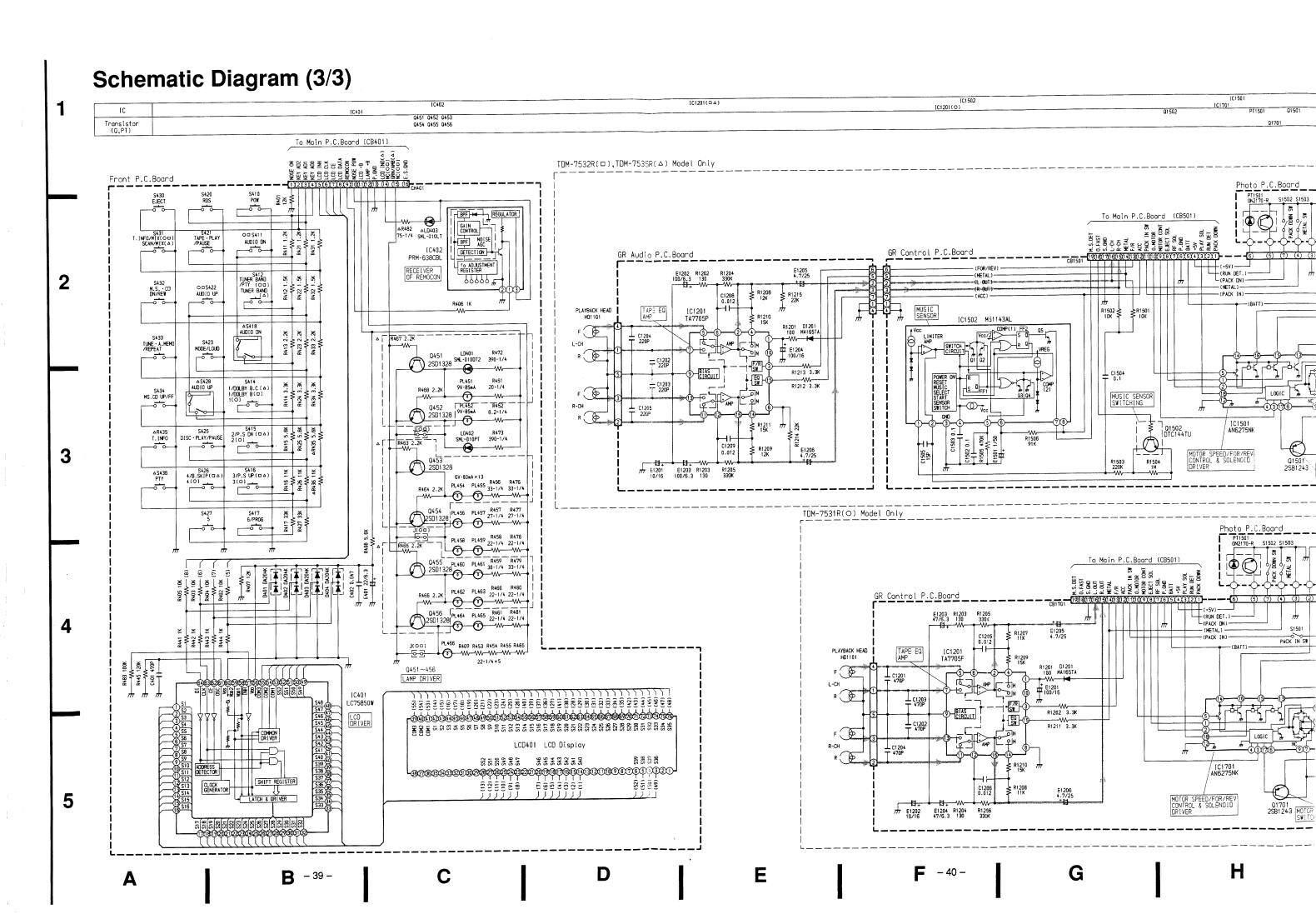


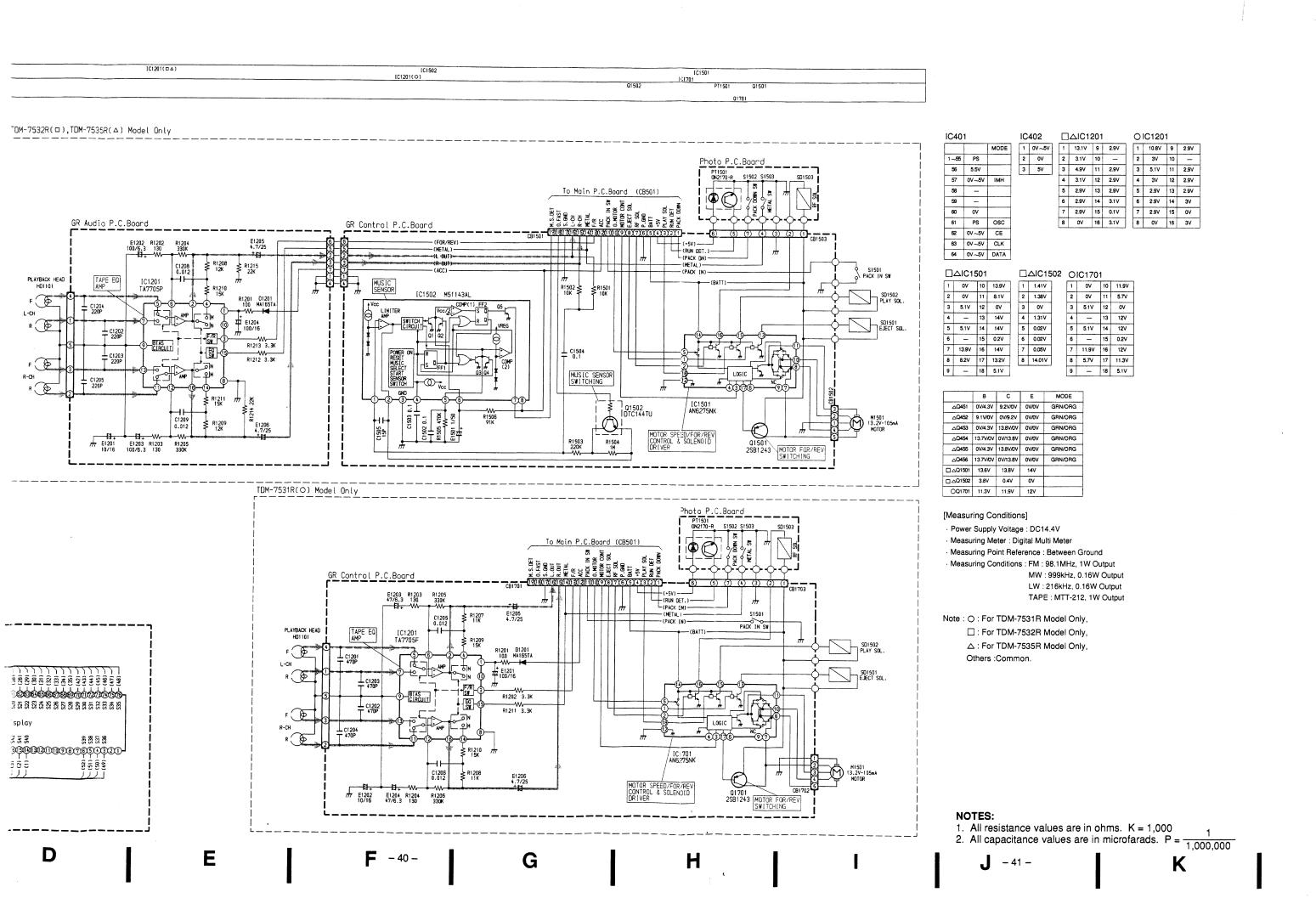
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# Schematic Diagram (2/3)









### **Electrical Parts List**

Resistor: Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor: µF=microfarads, pF=picofarads

	RES.=	Abb Resistor	oreviations CAP.=	Capacitor	S	ymbol No.	Part No.	Description
TR	C.F. = M.F. = M.O. = M.P. = TR. = RANS. =	Carbon Film Metal Film Metal Oxide Fi Metal Plate Transistor Transformer	CAP. =	Electrolytic Ceramic Mylar Tantalum Polystyrol Polypropylene	Δ	Q007 Q008 Q009 Q010 Q201	48T62967F03 48T63417F01 48T63420F01	CP., 2SA1037K CP., DTC124K CP., 2SC2412K CP., 2SA1037K CP., IMH1
	CP.=	Cnip	PF.=	Polyester Film	Δ	Q202 Q203		CP., DTC343T CP., DTC343T
S	ymbol No.	Part No.	Descri	ption		Q204 Q205	48T62967F33	CP., DTC343T CP., DTC343T
		Main	P. C. Board			Q206	48T62967F33	CP., DTC343T
	IC's					Q207 Q208	•	CP., DTC343T CP., DTC343T
	IC001	51T40941U03	MC14066BFL1			Q209	7	CP., DTC343T
ı		51T93336F01	NJM4558M	1	1	1 '	48T73888F12	CP., FMC2
		51T35504W02	1				48T73888F12	CP., FMC2
		51T55054W02						
1		51T93336F01	NJM4558M		Δ	Q505	48T73888F12	CP., FMC2
1	ĺ				1	Q506	48T62967F03	CP., DTC124K
1	IC006	51T67915F01	M51143AL		1	Q507	48T62966F03	CP., DTA124
	IC201	51T16466W02	CXA1163M		1	Q508	48T62967F03	CP., DTC124K
Δ	IC202	51T65314W01	CXA1562M			Q511	48T63420F01	CP., 2SA1037K
1	IC203	51T65131W01	TEA6320T		I			
	IC204	51T92001F21	XRA4560F					CP., DTC124K
1			,		1	Q801	48T93828F04	2SD1994A
1		1	XRA4560F		1		48T73888F12	CP., FMC2
		51T92001F21	XRA4560F			, ,	48T73888F12	CP., FMC2
0		51T35133W02				Q804	48T63420F01	CP., 2SA1037K
0	or	51T65310W01			į			
		51T35133W02	•		I	Q805	48T62967F03	CP., DTC124K
	or	51T65310W01	MC13309T3		ı		48T84366F01	2SB1243
١.				1	l	Q807	48T62967F02	CP., DTC114K
Δ		51T25614W11			l	Q808		2SD2008
0	i i	51T35133W02		į		Q809	48T62967F05	CP., DTC143XK
0	or	51T65310W01		- 1	I	0010	40T04366E04	25B1243
		51T35133W02 51T65310W01		i	1	Q810	48T84366F01 48T93828F04	25B1245 2SD1994A
<u> </u>	or	311033109701	INIC 1220312		1		48193828F04 48T84234F03	2SB1238
Δ	10211	51T25614W11	TA8221A4		1	1 '	48T84234F03	25B1238
44		51T45609W26		1	1	1 `	48T62967F03	CP., DTC124K
		51T75099W04			1	2014	-0102507103	win   win   win
		51T95014F13	S-8052HNM-CR	İ	1	0815	48T15289W03	2SD2008
	, , , , , , , ,	J 1 1 2 2 0 1 7 1 1 3	2 OUSEI HAIAI-CIV		1		48T93828F04	2SD1994A
	IC801	51T95014F09	S-8054ALR-LN					
Г	Trans	sistors				Diod	es / Surge Pro	otector
	Q001	48T73888F08	CP., FMG1			D001	48T52446F01	CP., MA151WK
		48T62967F03	CP., DTC124K	I		:	48T52446F01	CP., MA151WK
	<b>~</b> · · · -	48T73888F08	CP., FMG1	j				155133
		48T73888F08	CP., FMG1	i	l		48T84052F11	11ES2
	'	48T62967F03	CP., DTC124K	į	0		48T84052F11	11ES2
	Q006	48T73888F08	CP., FMG1			D202	48T84052F11	11ES2
				only D: For				· · · · · · · · · · · · · · · · · · ·

Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only,

Δ: For TDM-7535R Model only, Others : Common.

<b>-</b>	symbol No.	Part No.	Description	5	ymbol No.	Part No.		Description
	D202	48T55247W02		╟╴	Cap	<u> </u>	<u> </u>	
0	D203	48T84052F11	11ES2	II—	<del>,                                    </del>			
	D203	48T84052F11	11ES2	Ш	C001	08S65128F69	CP.,	0.01µF
Δ	D203	48T55247W02	11EQS04	Н	E001	23\$75372W13	ELY.,	0.47µF / 50
	D204	48T84052F11	11ES2		C002	08T15399W01	CP.,	0.022µF
					C002	08T15399W03	CP.,	0.047µF
ı	D205	48T84052F11	11ES2	Δ	C002	08T15399W03		0.047µF
0	D206	48T84052F11	11ES2	$\Pi^{-}$			,	υ.υ Ψ. μ.
	D206	48T84052F11	11ES2		E002	23S75372W14	ELY.,	0.68µF / 50
	D206	48T55247W02		0	C003	08T15399W03	CP.,	
	D200	48T84052F11	11ES2	$\coprod$			CP.,	0.047µF
$\sim$	0207	40104032711	11632		C003	08T15399W01	CP.,	0.022μF
<u> </u> _			4488	Δ	C003	08T15399W01	CP.,	
	D207	48T84052F11	11ES2	Ш	C004	08T15399W01	CP.,	0.022µF
Δ	D207	48T55247W02		П	İ		I	
1	D208	48T84052F11	11ES2		E004	23S75372W04		10μF / 16V
ĺ	D501	48T68828F11	155133	H	C005	08T15399W01	CP	0.022uF
	D502	48T68828F11	155133		E005	23S75372W02	ELY	100uF / 10V
1	1			H	C006	08T15399W01	CP.,	100μF / 10V 0.022μF
1	D503	48T68828F11	155133	li	E006	23S75372W14	ELY.,	0.68µF / 50
	D504	48T63462F01	CP., DAN202K	П	-000		' -,	σ.σσμι / σσ
	D505	48T63462F01	CP., DAN202K	Ħ	C007	08565128F69	CD	0.045
			1 '	H		E .	CP.,	0.01µF
	D507	48T68828F11	155133		E007	23\$75372W05	LLY.,	22μF / 16V
	D801	48T70933F11	1SS136		C008	08T35122W13	PF.,	0.1µF
	ĺ				E008	23\$75372W04	ELY.,	10µF / 16V
	D804	48T84052F11	11ES2		C009	08S65128F69	CP.,	0.01μF
	D805	48T64134F01	CP., DA204K	1	•	ļ		ŕ
	D806	48T68828F11	155133		E009	23\$75372W10	ELY	0.1µF / 50V
	D807	48T68580F03	DSA3A4		C010	08T15399W02	CP.,	0.033µF
Δ	ZD503	48T45012W29			C011	08T35122W15	PF	0.15uE
- 1			201101, 1111230,27		E011	23575372W05	ELY.,	2205/161/
	ZD801	48T25766W13	Zener, HZS7B1L		C012	08T15399W02	CD	
	ZD802		l '		C012	001133334402	CP.,	0.033µF
			Zener, HZS9C3L		F045			
1	ZD803		Zener, HZS9C3L		E012	23\$75372W16	ELY.,	2.2µF / 50V
	ZD804		Zener, HZS9C1L		C013	08S65128F69	CP.,	0.01µF
	ZD805	48T25766W01	Zener, HZS6A1L	1 1	E013	23\$75372W04	ELY.,	10μF / 16V
					C014	08S65128F69	CP.,	0.01µF 10µF / 16V 0.01µF
ľ	ZD806	48T25766W09	Zener, HZS6C3L		E014	23S75372W04	ELY.,	10µF / 16V
	DSP001	48T81909F01	DSP-201M				·	
					C015	08582122F31	CP.,	56pF
					E015	23575372W10		0.1µF / 50V
							CP.,	,
		<u> </u>			E016	23575372W10		0.022µF
	Crysta	als			C017			0.1µF / 50V
Ţ	X001	91T45118W43	7 2MU2		C017	08582122F23	CP.,	27pF
	X001 X002				F04-			
		91T45118W18			E017		ELY.,	33µF / 16V
	X501	91T45118W17			C018	08S82122F23	CP.,	27pF
P	X502	91T45118W27	4.9152MHz		E018	23575372W10	ELY.,	0.1µF / 50V
			Į.		C019	08S82122F23	CP.,	27pF
- [			į		E019		ELÝ.,	1µF / 50V
			l				•	,
	C:l+	/ Caile			C020	08S82122F23	CP.,	27pF
	riiter	/ Coils	i i		E020		ELY.,	2/ρΓ 10μF / 16V
Īſ	BPF001	91T75257W01	Filter, LPF11830K		C021		CP.,	330pF
	L001		Inductor, 1mH		C022		CP.,	
	L801		Choke		C023			560pF
	-551	241730334403	CHOKE		CU23	08S65128F69	CP.,	0.01µF
			l		co3.	0055545555	<b>45</b>	1
			ł				CP.,	820pF
	1					t t	CP.,	0.022µF
	Switch	1			C026		CP.,	0.01µF
		<del></del>			C027	08S65128F69	CP.,	0.01µF
5	501	40T16096W03	Tact, SKHHLW (RESET)		C028	08S65128F81	CP.,	0.039µF
1	ı							<i>,</i>

Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only,

Δ: For TDM-7535R Model only, Others : Common.

s	ymbol No.	Part No.		Description		s	ymbol No.	Part No.		Description
Г	C029	08\$65128F61	CP.,	2200pF		Δ	E225	23S75372W04	ELY.,	10µF / 16V
1	C031	08S65128F31	CP.,	68pF	ı	I	E226	23\$75372W04	ELY.,	10µF / 16V
ı	C032	08T15807W05	CP.,	0.1µF			E227	23S75372W04	ELY.,	10µF / 16V
ı	C035	23T82372F19	ELY., (			1	E228	23575372W04	ELY.,	10μF / 16V
1	C040	08S65128F35	CP.,	100pF			E229	23575372W04 23575372W04	ELY.,	10μF / 16V
l	C043	000000000000000000000000000000000000000		·	ı	l	1			•
	C042	08S65128F35 08S65128F35	CP.,	100pF	ı	l	E230	23575372W04	ELY.,	10µF / 16V
Δ	C201	1	CP.,	100pF	- 1	ı	E231	23575372W15	ELY.,	1µF / 50V
	E201	08T35122W11	CP.,	0.068µF	- 1	ı	E232	23\$75372W04	ELY.,	10μF / 16V
Δ	E201	23575372W15 23575372W15	ELY., ELY.,	1µF / 50V		l	E233 E234	23575372W04	ELY.,	10μF / 16V
l				1μF / 50V	ı		E234	23\$75372W04	ELY.,	10μF / 16V
Δ	C202	08T35122W11		0.068µF		l	E235	23S75372W04	ELY.,	10µF / 16V
	E202	23\$75372W15	ELY.,	1μF / 50V	- 1	•	E236	23T55405W15	ELY.,	1µF / 50V
Δ	E202	23S75372W15	1 '	1μF / 50V	- 1	ı	E237	23T55405W15	ELY.,	1µF / 50V
l	C203	08T35122W07	1 '	0.033µF	١.		E238	23T55405W15	ELY.,	1µF / 50V
	E203	23S75372W02	ELY.,	100µF / 10V	ı		E239	23T55405W15	ELY.,	1μF / 50V
Δ	E203	23\$75372W03	ELY.,	220μF / 10V			E240	23S75372W04	ELY.,	10μF / 16V
l	C204	08T35122W07	PF.,	0.033µF			E241	23575372W04	ELY.,	10µF / 16V
	E204	23S75372W14	ELY.,	0.68µF / 50V		l	E242	23\$75372W04	ELY.,	10μF / 16V
Δ	E204	23S75372W10	ELY.,	0.1μF / 50V		l	E243	23S75372W04	ELY.,	10μF / 16V
	C205	08T55390W14	PF.,	5600pF			E244	23T55378W01	ELY.,	220μF / 10V
	E205	23S75372W14	ELY.,	0.68µF / 50V	- [,		E245	23T55378W01	ELY.,	220µF / 10V
Δ	E205	23S75372W10	ELY.,	0.1μF / 50V	li li		C501	08S65128F69	CP.,	0.01μF
	C206	08T55390W14	PF.,	5600pF	Ш		E501	23575372W02	ELY.,	100µF / 10V
	E206	23S75372W15	ELY.,	1μF / 50V	Ш		C502	08T15399W01	CP.,	0.022µF
Δ	E206	23575372W15	ELY.,	1µF / 50V			E502	23\$75372W02	ELY.,	100μF / 10V
	E207	23S75372W05	ELY.,	22μF / 16V	Ш		C503	08582122F15	CP.,	12pF
Δ	E207	23\$75372W04	ELY.,	10µF / 16V	H		E503	23\$75372W04	ELÝ.,	10μF / 16V
	E208	23\$75372W15	ELY.,	1μF / 50V	- 11		C504	08S82122F15	CP.,	12pF
	E209	23\$75372W09	ELY.,	4.7µF / 35V	Ш		E504	23\$75372W02	ELY.,	100µF / 10V
	E210	23\$75372W09	ELY.,	4.7µF / 35V			E506	23\$75372W12	ELY.,	0.33µF / 50
	E211	23575372W09	ELY.,	4.7µF / 35V			E510	23S75372W02	ELY.,	100μF / 10V
	E212	23\$75372W09	ELY.,	4.7µF / 35V			C514	08T15399W01	CP.,	0.022µF
	C213	08T65020W07	CP.,	0.15µF			C515	08S82122F23	CP.,	27pF
	E213	23\$75372W15	ELY.,	1μF / 50V	- 11		C516	08S82122F23	CP.,	27pF
	C214	08T65020W07	CP.,	0.15µF	Ш		C519	08S65128F35	CP.,	100pF
	E214	23\$75372W15	ELY.,	1µF / 50V		Δ	C523	08\$65128F69	CP.,	0.01µF
	C215	08T65020W07	CP.,	0.15µF		ļ	C524	08S65128F47	CP.,	330pF
l	E215	23\$75372W02	ELY.,	100µF / 10V	- []	ĺ	E801	23\$75372W10	ELY.,	0.1µF / 50V
	C216	08T65020W07	CP.,	0.15µF		l	E802	23S75372W04	ELY.,	10µF / 16V
	C217	08T65020W07	CP.,	0.15µF			E803	23\$75372W04	ELY.,	10µF / 16V
ł	E217	23\$75372W15	ELY.,	1µF / 50V			C804	08\$65128F69	CP.,	0.01µF
-	C218	08T65020W07	CP.,	0.15µF	11			23T00149L26	ELY.,	220µF / 16V
- 1	E218	23\$75372W15	ELY.,	1μF / 50V			C805	08T15399W01	CP.,	0.022µF
-	C219	08T65020W07	CP.,	0.15µF		-		1	ELY.,	220µF / 10V
	E219	23S75372W15	ELY.,	1μF / 50V			C806	08T15399W01	CP.,	0.022μF
	C220	08T65020W07	CP.,	0.15µF			E806	23\$75372W04	ELY.,	10µF / 16V
	E220	23\$75372W07	ELY.,	47µF / 16V	-	- [	C807	08\$53332F67	CP.,	0.1μF
-	E221	23\$75372W15	ELY.,	1μF / 50V			C808	08S53332F67	CP.,	0.1µF
	E222	23\$75372W09	ELY.,	4.7μF / 35V	Ш			23T00149L27	ELY.,	330µF / 16V
	E223	23S75372W02	ELY.,	100µF / 10V			E811	23T35505W12	ELY.,	2200µF / 16V
	E224	23S75372W04	ELY.,	10µF / 16V				23T35505W12 23S75372W15		2200µF / 16V

Notes: O: For TDM-7531R Model only, ∆: For TDM-7535R Model only, Others: Common.

			<del>;                                    </del>		_				
Sy	mbol No.	Part No.		Description	S)	mbol No.	Part No.		Description
	Resisto	ors (All resist	ors are c	hip 1/10W±5%	Ш	R070	06S64995F53	1	ohm
1		unless o	therwise	hip 1/10W $\pm$ 5% noted.)		R203	06564996F30	2.2M	
	I		Γ		Δ	R203	06S64996F30	2.2M	ohm
•	R001	06S64995F77	10K	ohm		R204	06S64996F30	2.2M	ohm
l	R002	06S64995F77	10K	ohm	Δ	R204	06S64996F30	2.2M	ohm
1	R003	06S64995F77	10K	ohm	П				
l	R004	06S64995F77	10K	ohm		R205	06S64995F61	2.2K	ohm
l	R006	06S64995F81	1	ohm	Δ	R205	06S64995F60	2K	ohm
	11000					R206	06S64995F61	2.2K	ohm
1	R007	06564995F61	2.2K	ohm	Δ	R206	06S64995F60	2K	ohm
	R008	06S64995F61		ohm		R207	06S64995F53	1 1K	ohm
	R009	06S64995F53		ohm	-				
	R012	06564995F53	1	ohm	Δ	R207	06S64995F61	2 2K	ohm
	R012	06564995F53		ohm		R208	06S64995F53		ohm
	KU13	00304995553	'`	Offin		R208	06564995F61	1	ohm
l	2014	06564005561	2 24	ahm.		R209	06S64995F85		ohm
1	R014	06S64995F61		ohm ohm		R210	06564995F92	i	ohm
1	R015	06564995F61				1210	00304333732	431	Olimi
	R016	06564995F29	i .	ohm	١,	2210	06564005584	204	ohm
	R017	06S64995F53	1	ohm	<u> </u>	R210	06S64995F84	1	ohm
	R018	06\$64995F83	18K	ohm		R211	06564995F69		
					Δ	R212	06S64995F37		ohm
1	R019	06S64995F85	1	ohm	Δ	R213	06S64995F79	i .	ohm
l	R020	06S64995F71	5.6K	ohm	Δ	R214	06S64995F75	8.2K	ohm
	R021	06S64995F53	1	ohm					_
	R022	06S64995F77	10K	ohm	0	R221	06S64995F79	1	ohm
ł	R023	06S64995F61	2.2K	ohm		R221	06S64995F77		ohm
			]		Δ	R221	06S64995F77		ohm
l	R024	06S64995F53	1K	ohm		R222	06S64995F79	12K	ohm
i	R025	06S64995F93	47K	oḥm		R222	06S64995F77	10K	ohm
1	R026	06S64995F53	1K	ohm					
	R027	06S64995F93	47K	ohm	Δ	R222	06S64995F77	10K	ohm
	R028	06S64995F61	2.2K	ohm		R223	06S64995F87	27K	ohm
						R223	06S64995F77	10K	ohm
i	R030	06S64995F77	10K	ohm	Δ	R223	06S64995F77	10K	ohm
l	R031	06S64995F77	10K	ohm	llo.	R224	06S64995F87	27K	ohm
1	R032	06S64996F02	100K						
•	R033	06S64995F81		ohm		R224	06S64995F77	10K	ohm
	R034	06S64996F09	200K		Δ	R224	06S64995F77	10K	ohm
	11054	00304330103		<b>5</b>	Δ	R225	06S64995F37	220	ohm
i .	R035	06S64996F14	330K	ohm	$\overline{\Delta}$	R226	06S64995F37	1	ohm
	R036	06564995F29		ohm	-	R227	06S64995F37	1	ohm
1	R037	06564995F79	l .	ohm		/			
	R038	06564996F04	120K		H	R228	06S64995F37	220	ohm
	R039	06564995F13		ohm	Δ	R229	06564995F85		ohm
1	1039	00304333713		O: ((1)	Δ	R230	06564995F85		ohm
1	B040	06564006503	1002	ohm	44	R231	06564995F85		ohm
	R040	06564996F02	100K 100K			R232	06564995F85		ohm
1	R041	06564996F02			Ш	N232	00304333703	221	Ollin
•	R042	06564995F89		ohm	,	R233	06564005527	220	ohm
	R043	06S64995F89		ohm	À	1	06564995F37		ohm
	R044	06S64996F26	1101	ohm	Δ	R234	06564995F37	1	ohm
						R235	06S64995F37		
ا ۾ ا	R045	06S64996F01		ohm	II '	R236	06S64995F37	l	ohm ohm
0	R051	06S64995F85		ohm		R237	06S64995F85	228	ohm
Õ	R052	06S64995F85		ohm	H		00004005505	221/	ahm
Õ	R053	06S64995F92		ohm	l	R238	06564995F85		ohm
0	R054	06S64995F92	43K	ohm	I	R239	06\$64995F85	ł	ohm
	_	· · · · · · ·		,	_	R240	06564995F85	l .	ohm
1	R055	06S64995F69		ohm	2	R241	06564995F69	I .	ohm
	R060	06S64995F53		ohm		R241	06S64995F77	10K	ohm
1	R061	06S64995F53		ohm	۱.			400	-1
1	R062	06S64995F53	1K	ohm	Δ	R241	06S64995F77	10K	ohm
	<u> </u>				١Ц	L	<u> </u>	<u> </u>	

Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only, Others: Common.

Sy	mbol No.	Part No.		Description		Sy	/mbol No.	Part No.		Description
0	R242	06564995F69	176	ohm		$\overline{\Delta}$	R513	06S64995F61	2 2K	ohm
				ohm		1	R514	06S64995F85	1	ohm
	R242	06S64995F77				1	1	06564995F53	1	ohm
Δ	R242	06S64995F77		ohm		I	R515	I .		
0	R243	06S64995F69	1	ohm	ı	1	R516	06S64995F53		ohm
	R243	06S64995F77	10K	ohm	I		R517	06S64995F62	2.4K	ohm
	D242	06564005577	104	a h.m.	1	l	R518	06564996F02	100K	ohm
Δ	R243	06564995F77		ohm			R519	06564996F02		ohm
Ō	R244	06564995F69	1	ohm	ı	ı	1	1	1	
	R244	06S64995F77		ohm	1	1	R520	06564995F85	1	ohm
Δ	R244	06S64995F77	1	ohm	I	1	R521	06S64995F69		ohm
	R245	06S64995F37	220	ohm	1		R522	06S64995F61	2.2K	ohm
	R246	06S64995F37	220	ohm			R523	06S64995F53	1K	ohm
1	1		I .	ohm		•	R524	06564995F53	1	ohm
1	R247	06564995F37			-		R525	06564996F02		ohm
l	R248	06S64995F37	1	ohm					1	
l	R249	06\$64995F67		ohm	ı		R526	06564995F93	B .	ohm
	R250	06S64995F67	3.9K	ohm	ı		R527	06S64995F93	47K	ohm
	R251	06S64995F67	200	ohm			R531	06S64995F93	47K	ohm
	R252	06564995F67	1	ohm		1	R532	06564995F93		ohm
1		1	f	ohm	I	1	R533	06564995F93		ohm
l	R253	06564995F57	1		1	ı				
•	R254	06S64995F57	1	ohm	I	ı	R537	06S64995F53	1	oḥm
	R255	06S64995F57	1.5K	ohm			R540	06564995F93	4/K	ohm
	R256	06S64995F57	154	ohm	i		R544	06S64995F93	A7K	ohm
	R257	06564995F53		ohm		l	R550	06564995F85	1	ohm
	1				- 1		1			ohm
İ	R258	06S64995F53		ohm	I		R551	06564995F77	4	
	R259	06S64995F53	1	ohm	l	ı	R552	06\$70072F77		ohm 1/4W
•	R260	06S64995F53	1 K	ohm		l	R553	06S70072F77	10K	ohm 1/4W
l	R261	06S64995F57	1 5K	ohm	- 1	l	R554	06570072F77	10K	ohm 1/4W
ı	R262	06S64995F57	ł	ohm		1	R556	06S70072F75	l .	ohm 1/4W
ı	R263	06S64995F57		ohm			R557	06S70072F75	l	ohm 1/4W
1	R264	06564995F57		ohm			R558	06S70072F75		ohm 1/4W
		1		ohm 1/8W	1	1	R559	06564995F77	1	ohm
	R265	06S53331F40	2.2	OHH 170VV	- 1		1,223	00304333177	100	Offili
	R266	06S53331F40	2.2	ohm 1/8W	1		R560	06S64995F77	10K	ohm
	R267	06S53331F40		ohm 1/8W			R561	06S64995F77	1	ohm
	R268	06553331F40	2.2		ı		R562	06S64995F77		ohm
	R270	06S53331F40	2.2		l		R563	06S64995F77	ľ	ohm
	R271	06S53331F40		ohm 1/8W			R564	06S70072F53		ohm 1/4W
	12/1	00333331140	2.2	011111 1/044			11.304	003/00/2/33	I I K	011111 1/444
	R272	06S53331F40	2.2	ohm 1/8W	1		R565	06S64996F02	100K	ohm
	R275	06S53331F40	2.2	ohm 1/8W	- 1	Δ	R566	06S64995F77	10K	ohm
	R501	06S64995F41		ohm	1	Δ	R567	06564995F93		ohm
1	R502	06564995F89		ohm		-	R568	06S64995F85		ohm
	R503	06564995F93		ohm	1		R569	06S64995F85		ohm
	,,,,,,									
	R504	06S64995F93	47K	ohm	I		R570	06S53330F85	22K	ohm 1/8W
	R505	06\$64995F93	47K	ohm			R571	06S70072F37	220	ohm 1/4W
	R506	06S64995F69	4.7K	ohm	1		R573	06S64995F93	47K	ohm
0	R507	06S64995F45	l .	ohm	ŀ		R574	06S64996F02	100K	
	R507	06S64995F53		ohm	1		R577	06564995F93		ohm
					]					
Δ	R507	06564995F53	1K	ohm			R579	06S64995F53	1K	ohm
	R508	06564995F85	22K	ohm	1		R580	06S64995F53	1K	ohm
	R509	06S64995F93	47K	ohm	]		R581	06S64995F53	1K	ohm
	R510	06S64995F93	47K	ohm			R582	06S64995F53	1K	ohm
Δ	R512	06S64995F61	2.2K	ohm			R583	06S64995F53	1K	ohm
_		0000000		. I			DE0:			į į
	R513	06S64995F61	2.2K	onm			R584	06S64995F53	1K	ohm

Notes: O: For TDM-7531R Model only,

∆: For TDM-7535R Model only,
Others: Common.

_							<del></del>	
S	ymbol No.	Part No.		Description	:	Symbol No.	Part No.	Description
	R585	06S64995F53	1K	ohm			Frant	D. C. Doord
l	R586	06S64995F53	4	ohm			FIOIL	P. C. Board
ı	R587	06S64996F10	1	ohm		IC's		,
ı	R588	06S64995F53	1K	ohm	11_			
Δ	R589	06S70072F26	75	ohm 1/4W		IC401 IC402	51T55492W01 51T55246W02	LC75850W RPM-638CBL
ı	R590	06S64995F77	10K	ohm	- !!			
ı	R591	06\$64995F61	2.2K	ohm	11			
ı	R593	06564995F53	i	ohm	11	T		<u> </u>
ı	R594	06S64995F53	1	ohm	- 11	ıran	sistors	
ı	R595	06S64995F53		ohm		Q451	48T63788F04	CP., 2SD1328
l					Δ	Q452	48T63788F04	CP., 2SD1328
	R596	06S64995F53		ohm		1	48T63788F04	CP., 2SD1328
	R801	06S70072F69		ohm 1/4W	4	,	48T63788F04	CP., 2SD1328
	R801	06S70072F69		ohm 1/4W	Δ	Q455	48T63788F04	CP., 2SD1328
Δ	R801	06S70072F66	1	ohm 1/4W				
	R803	06S53330F69	4.7K	ohm 1/8W		Q456	48T63788F04	CP., 2SD1328
1	R804	06S53330F77	1	ohm 1/8W	11			
	R805	06S70072F45	470	ohm 1/4W				
	R806	06S64995F77	10K	ohm	11	Dioc	les	
1	R807	06S70072F61	2.2K	ohm 1/4W	11_	7	<del></del>	
	R808	06S64995F77	10K	ohm	li li	D401	48T64134F01	CP., DA204K
					- 11	D402	48T64134F01	CP., DA204K
	R809	06S70072F03		ohm 1/4W	- 11	D403	48T64134F01	CP., DA204K
	R810	06S70072F03	1	ohm 1/4W	- 11	D404	48T64134F01	CP., DA204K
•	R811	06S70072F03	1	ohm 1/4W	- 11			
I	R812	06S64995F77		ohm	11	1	<u> </u>	
	R813	06S64995F77	10K	ohm .		LED'	S	
	R814	06\$70072F57	1.5K	ohm 1/4W		LD401	48T65477W01	CP., SML-010DT2(ORG)
l	R815	06\$53330F77	10K	ohm 1/8W		LD402	1	1
	R816	06S64996F02	100K			1	48T65477W02	CP., SML-010LT(RED)
	R817	06S70072F40	1	ohm 1/4W	11-	123	1 401054771102	Cr., Sine Groen (NED)
	R818	06S70072F57		ohm 1/4W				
						Swite	ches	· · · · · · · · · · · · · · · · · · ·
	R819	06S70072F57		ohm 1/4W		JC 440		50 T . (KOLLA) (BOLL)
	R820	06S70072F57		ohm 1/4W	11_	S410		CP. Tact, SKQMAJ (POW)
ł	R821	06564995F77		ohm	112		40T55656W03	
	R822	06S70072F57		ohm 1/4W		5411	40T55656W03	
	R824	06S70072F57	1.5K	ohm 1/4W	l i	5412	40155656W03	CP. Tact, SKQMAJ (TUNER BAND / PTY)
	R825	06S64995F77	10K	ohm		5412	40T55656W03	CP. Tact, SKQMAJ
	R831	06S64995F65	3.3K	ohm		1		(TUNER BAND / PTY)
	R832	06S64995F53	1K	ohm	11			
	R833	06S70072F61	2.2K	ohm 1/4W	Δ	S412	40T55656W03	CP. Tact, SKQMAJ
	R834	06S64995F77	10K	ohm		5414	AUTERRECIAIOS	(TUNER / BAND)
	R835	06\$70072F41	חככ	ohm 1/4W		S414 S414	40T55656W03	CP. Tact, SKQMAJ (1)
	R836	06\$70072F41		ohm 1/8W		3	40T55656W03	CP. Tact, SKQMAJ (1 / DOLBY B)
	VR201	18T15356W13			4.1	S414	40T55656W03	CP. Tact, SKQMAJ (1 / DOLBY B·C)
	VR201	18T15356W13	Variable, Variable,		$11^{\circ}$	\$415	40T55656W03	CP. Tact, SKQMAJ (2)
	VR201	18T15356W13				S415	AOTEECESMOS	CD Test SECMAL (2 / D.S. DAN)
	V1202	101133304413	variable,	ION OTHER		1	40T55656W03	CP. Tact, SKQMAJ (2 / P.S DN)
,	VR202	19715256\4/12	Variable	10K ohm	$A \triangle$		40T55656W03	CP. Tact, SKQMAJ (2 / P.S DN)
4	V NZUZ	18T15356W13	Variable,	IOK OHIII		S416	40T55656W03	CP. Tact, SKQMAJ (3)
						S416	40T55656W03	CP. Tact, SKQMAJ (3 / P.S UP)
					$\prod^{\Delta}$	S416	40T55656W03	CP. Tact, SKQMAJ (3 / P.S UP)
					- 11	S417	40T55656W03	CP. Tact, SKQMAJ (6 / PROG)
					Δ	S418	40T55571W01	CP. Tact, SKQAXX(AUDIO DN)
			,		11	S420	40T55656W03	CP. Tact, SKQMAJ (RDS)

Sy	ymbol No.	Part No.	Description	S	ymbol No.	Part No.		Description		
L	S421	40T55656W03	CP. Tact, SKQMAJ (TAPE · PLAY / PAUSE)		Resisto	sistors (All resistors are chip 1/10W±5% unless otherwise noted.)				
	5422	40T55656W03	CP. Tact, SKQMAJ (AUDIO UP)	Ι⊢	т —	T unless o	I I I I I I I I I I I I I I I I I I I	noted.)		
	5422	40T55656W03	CP. Tact, SKQMAJ (AUDIO UP)		R401	06S64995F79	12K	ohm		
	5423	40T55656W03	CP. Tact, SKQMAJ	Ш	R402	06\$64995F77	10K	ohm		
			(MODE / LOUD)		R403	06S64995F77	1	ohm		
ĺ	5425	40T55656W03	CP. Tact, SKQMAJ	Ш	R404	06S64995F77	1	ohm		
	3-12-3	101330301103	(DISC · PLAY / PAUSE)		R405	06S64995F77	1	ohm		
$\circ$	S426	40T55656W03	CP. Tact, SKQMAJ (4)		R406	06\$64995F53	1 K	ohm	ı	
_	\$426	1	CP. Tact, SKQMAJ (4 / B.SKIP)	П	R407	06S64995F79		ohm		
	5426		CP. Tact, SKQMAJ (4 / B.SKIP)	Ш	R408	06S64995F71	1	ohm		
_	5427	40T55656W03	CP. Tact, SKQMAJ (5)	Ш	R411	06S64995F55	1.2K	ohm		
Δ	S428	40T55571W01	CP. Tact, SKQAXX (AUDIO UP)		R412	06S64995F57		ohm		
	S430	40T55656W03	CP. Tact, SKQMAJ (EJECT)		R413	06S64995F61	2 2K	ohm		
$\circ$	5431	40T55656W03	CP. Tact, SKQMAJ (T.INFO / MIX)	П	R414	06S64995F65	I .	ohm		
-	5431	40T55656W03	CP. Tact, SKQMAJ (T.INFO / MIX)	П	R415	06S64995F71	t .	ohm	ı	
	5431	40T55656W03	CP. Tact, SKQMAJ (SCAN / MIX)	П	R416	06S64995F78	ſ	ohm		
<u> </u>	5432	40T55656W03	CP. Tact, SKOMAJ	II	R417	06S64995F89	ì	ohm		
	عربر	701330304403	(M.S CD·DN / REW)	П	``~''	00304393103	338	On the second		
				H	R421	06S64995F55	1.2K	ohm		
	S433	40T55656W03	CP. Tact, SKQMAJ	li	R422	06S64995F57	1.5K	ohm		
			(TUNE·A.MEMO / REPEAT)		R423	06S64995F61	2.2K	ohm		
	S434	40T55656W03	CP. Tact, SKQMAJ	l I	R424	06S64995F65	3.3K	ohm	ı	
			(M.S. CD·UP / FF)	H	R425	06S64995F71	5.6K	ohm		
	\$435	40T55656W03	CP. Tact, SKQMAJ (T.INFO)							
Δ	\$436	40T55656W03	CP. Tact, SKQMAJ (PTY)		R426	06S64995F78		ohm	- 1	
					R427	06S64995F89		ohm	- 1	
					R431	06S64995F55		ohm	- 1	
					R432	06S64995F57	[	ohm	1	
	1	<u> </u>			R433	06S64995F61	2.2K	ohm		
	Lamp	OS .			R434	06564995F65	3.3K	ohm		
	PL451	65T75231W02	9V-85mA	Δ	R435	06S64995F71	5.6K	ohm		
	PL452	65T75231W01	9V-85mA	Δ	R436	06S64995F78	11K	ohm		
Δ	PL454	65T75233W01	CP., 6V-80mA		R441	06S64995F53	1K	ohm		
	PL455	65T75233W01	CP., 6V-80mA		R442	06S64995F53	1K	ohm		
	PL456	65T75233W01	CP., 6V-80mA		24.5	000000000000000000000000000000000000000	<b></b>	. 1		
ĺ	DI 457	CETTED DIAME	CD		R443	06564995F53		ohm	ļ	
		65T75233W01			R444	06564995F53		ohm		
	PL458 PL459	65T75233W01 65T75233W01	CP., 6V-80mA	,	R445	06564996F04	120K			
		65175233W01	CP., 6V-80mA CP., 6V-80mA	Δ	R451	06570072F12		ohm 1/4W		
	PL460	65175233W01	CP., 6V-80mA		R452	06\$70072F04	8.2	ohm 1/4W		
			·		R453	06S70072F13		ohm 1/4W		
	PL462	65T75233W01	CP., 6V-80mA	1	R454	06S70072F13		ohm 1/4W		
1	PL463	65T75233W01	CP., 6V-80mA		R455	06S70072F13		ohm 1/4W	- 1	
	PL464	65T75233W01	CP., 6V-80mA	Δ	R456	06S70072F17		ohm 1/4W	1	
	PL465	65T75233W01	CP., 6V-80mA		R457	06S70072F15	27	ohm 1/4W		
	PL466	65T75233W01	CP., 6V-80mA		DAFO	06670073543		ahm 4/4/4/		
				,	R458	06\$70072F13		ohm 1/4W		
				Δ	R459	06\$70072F16		ohm 1/4W	ı	
	لـــــا	•.		Δ	R460 R461	06\$70072F13		ohm 1/4W		
	Capa	citors		Δ	R463	06570072F13 06564995F61		ohm 1/4W ohm		
	C401	08S82122F53	CP., 470pF							
	E401	23T25191W42	CP., ELY. 22µF / 6.3V	Δ	R464	06S64995F61	2.2K	ohm		
	C402	08T15399W03	CP., 0.047µF	Δ	R465	06S64995F61		ohm		
				Δ	R466	06S64995F61		ohm	1	
				Δ	R467	06S64995F61	2.2K	ohm		
	LI		4 7521D Model only 17. Fo			22P Madal a				

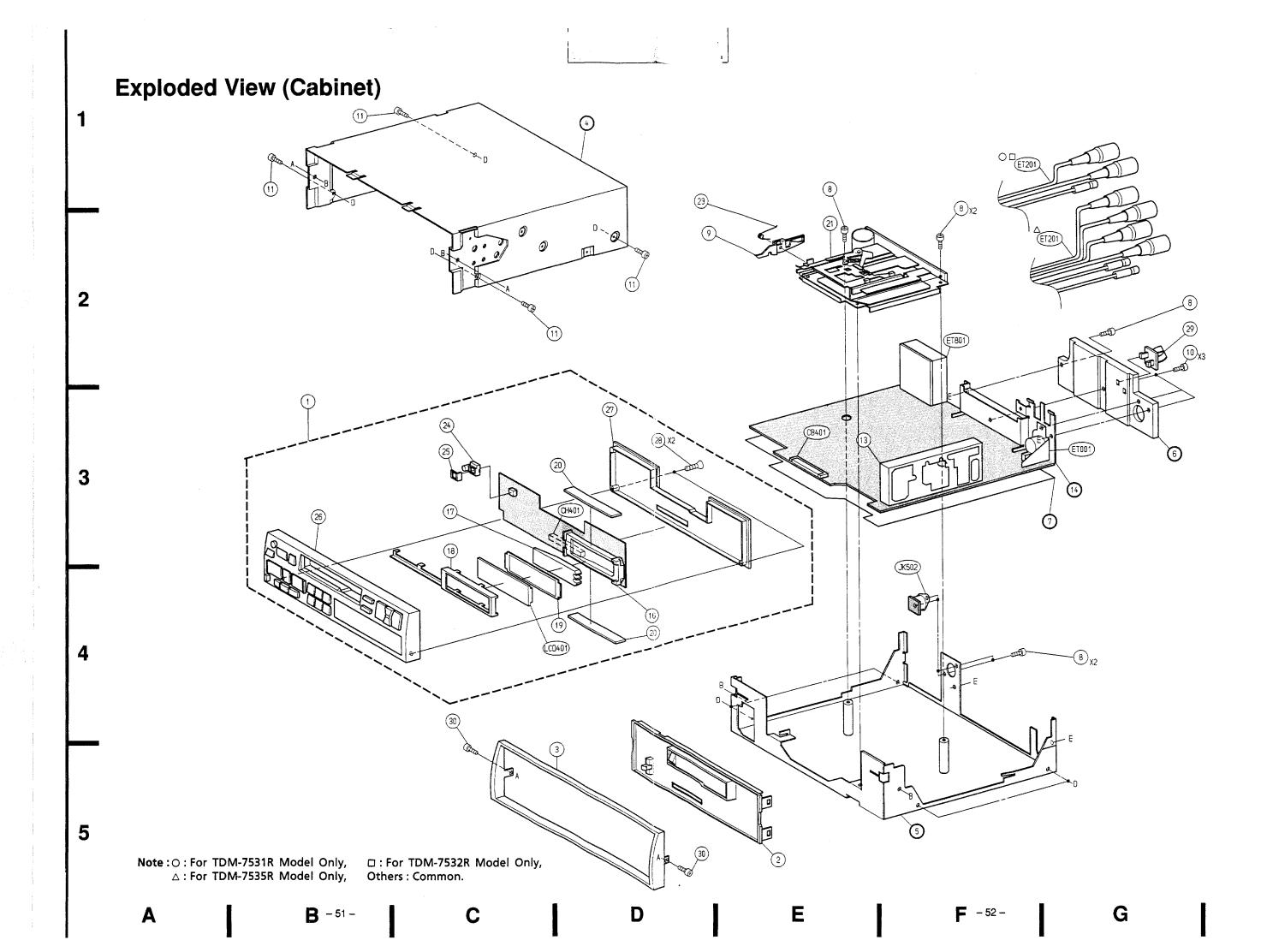
Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only, ∆: For TDM-7535R Model only, Others: Common.

							· · · · · · · · · · · · · · · · · · ·	
Sy	mbol No.	Part No.		Description	Symbol No.	Part No.		ription
Δ	R468	06S64995F61	2.2K	ohm	E1206	23S61523F17		.7μF / 25V
	R469	06S70072F13	22	ohm 1/4W	or	23T55402W20	ELY., 4	.7μF / 25V
Δ	R472	06S70072F43		ohm 1/4W				
	R473	06S70072F43	390	ohm 1/4W				
Δ	R476	06S70072F17	33	ohm 1/4W				
		06670073515	27	ohm 1/4W				
	R477 R478	06S70072F15 06S70072F13		ohm 1/4W				
	R479	06570072F17		ohm 1/4W	Resisto	ors (All resist	ors are chip ierwise noted	1/8W±5%
-	R480	06570072F13		ohm 1/4W		unless oth	ierwise noted	.)
	R481	06S70072F13		ohm 1/4W	R1201	06S53330F29	100 ohm	
					R1202	06S53330F65	3.3K ohm	
Δ	R482	06S70072F26	75	ohm 1/4W	R1203	06S53330F32	130 ohm	
	R483	06S64996F02	100K	ohm	R1204	06S53330F32	130 ohm	
l	R485	06S70072F13	22	ohm 1/4W	R1205	06S64996F14	330K ohm	1/10W
1					R1206	06S64996F14	330K ohm	1/10W
ĺ					R1200	06564995F78	11K ohm	
					R1208	06S53330F78	11K ohm	
1					R1209	06S53330F81	15K ohm	
1					R1210	06S53330F81	15K ohm	
					R1211	06S53330F65	3.3K ohm	
		GR Conti	ral D	C Poord				
		J GR Conti	OI P.	C. Bualu			1	
Г	IC's							
-		51T64606F02	TA7705F					
	1 1	51T25621W02	AN6275Nk	•				
	101701	31123021002	ANOZIJINI	` .				
l				•				n 1
						∆ GR Con	trol P.C.	Board
		sistor / Diode				Transistors	LIC ANICOZENIK	
l		48T84366F05	2SB1243	A 4 CET A	IC1501	51T25621W02 51T67915F01	IC, AN6275NK	
ı	D1201	48T44813F01	Diode, M	A1651A	IC1502 Q1501	48T84366F05	2SB1243	
					Q1501 Q1502	48T94606F12	CP., DTC144TU	
					11302	40134003172		
H	Cana	citors						
$\vdash$			CB.	470pF	<b> </b>	<u> </u>		
l	C1201	08553332F31 23582482F02	CP., ELY.,	470pr 100µF / 16V	Capa	acitors		
	E1201 C1202	08S53332F31	CP.,	470pF	E1501	23S61524F32	ELY.,	1μF / 50V
1	E1202	23S61523F12	ELY.,	10µF / 16V	or	23T55521W34	ELY.,	1μF / 50V
1	or	23T55402W15	ELY.,	10μF / 16V	C1502	08T35374W01	CP.,	0.1μF
1	"	23133 <del>7</del> 024413	' .,	10p. / 101	C1503	08T35374W01	CP.,	0.1μF
	C1203	08553332F31	CP.,	470pF	C1504	08T35374W01	CP.,	0.1µF
	E1203	23S61523F07	ELY.,	47µF / 6.3V				
	or	23T55402W07	ELY.,	47µF / 6.3V	C1505	08S65128F15	CP.,	15pF
	C1204	08S53332F31	CP.,	470pF	H		1	
1	E1204	23S61523F07	ELY.,	47μF / 6.3V		1		
1	or	23T55402W07	ELY.,	47μF / 6.3V	Dariet	ore (All ===!=4	tors are ship	1/10\\/ + 504
1					Kesist	ors (All resist unless o	tors are chip therwise note	ed.)
	C1205	08553332F48	CP.,	0.012µF	DIENI		10K ohm	
1	E1205	23S61523F17	ELY.,	4.7µF / 25V	R1501 R1502	06S64995F77 06S64995F77	10K ohm	
	or	23T55402W20	ELY.,	4.7µF / 25V	R1502	06564996F10	220K ohm	
	C1206	08S53332F48	CP.,	0.012µF	R1503	06564996F26	1M ohm	
					''''			
	1				[ <u></u>			
						220 Madal a		

Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only, Others: Common.

Symbol No.	Part No.	Description		!	Symbol No.	Part No.	Description
R1505 R1506	06S64996F18 06S64996F01	470K ohm 91K ohm				Misc	ellaneous
				004	CB401 CB401 CB401 CH401	09T75038W14 09T75038W14 09T75038W16 09T75039W16	16Pin Connector 16Pin Connector 16Pin Connector 16Pin Connector
	- CD A	lia D. C. Daand			ET001	09T55211W01	Antenna Receptacle
	J∆ GK Aud Diode	dio P.C. Board		0	ET201	01T55244W05	Assy., Connectors (Rear Output RCA Connectors
IC1201 D1201	51T15146W01 48T44813F01	IC, TA7705P MA165TA			ET201	01T55244W05	/ Remote Turn-On Lead) Assy., Connectors (Rear Output RCA Connectors
				Δ	ET201	01T55244W07	/ Remote Turn-On Lead) Assy., Connectors (Front / Rear Output RCA Connectors / Audio Interrupt In
	citors				57004	017757071401	Lead / Remote Turn-On Lead)
E1201 or	23S61524F13 23T55521W15				ET801	01T75292W01 88T10373W02	Assy., ISO Connector (Open / Speaker Output / Power) Head
C1202 E1202	08S72783F27 23S61524F08	CP., 220pF ELY., 100μF / 6.3V					
or	23T55521W07	ELY., 100µF / 6.3V			HD1101	88T15971W02 88T15971W02	Head Head
C1203 E1203	08572783F27 23561524F08	CP., 220pF ELY., 100µF / 6.3V		0	M1501	01V53200W99	Assy., Main Motor (13.2V-105mA)
or C1204	23T55521W07 08S72783F27	ELY., 100μF / 6.3V CP., 220pF			M1501	01V51800W42	Assy., Main Motor (13.2V-105mA)
E1204 or	23582482F02 23T55521W19	ELY., 100μF / 16V ELY., 100μF / 16V		Δ	M1501	01V51800W42	Assy., Main Motor (13.2V-105mA)
C1205	08\$72783F27	CP., 220pF			JK502	09T16653W01	DIN Connector
E1205	23S61524F18 23T55521W20	ELY., 4.7μF / 25V ELY., 4.7μF / 25V			LCD401 PT1501	1	LCD Display Sensor, Photo ON2170-R
or E1206	23561524F18	ELY., 4.7µF / 25V		ŀ	S1501	40T15222W01	Switch, Detector (PACK IN)
or	23T55521W20	ELY., 4.7µF / 25V			S1502	40T15382W01	Switch, Detector (PACK DOWN)
C1208 C1209	08T35122W02 08T35122W02	TF, 0.012µF TF, 0.012µF			S1503 SD1501	40T15382W01 01T10369W02	Switch, Detector (METAL) Assy., Eject Solenoid
C1209	061331224402	π, σ.στεμ			SD1502	01T15249W01	Assy., Play Solenoid Assy., RF Solenoid
Resisto	ors (All resist unless of	ors are chip 1/10W±:herwise noted.)	5%				
R1201	06S53330F29	100 ohm 1/8W					
R1202	06S53330F32	130 ohm 1/8W		1			
R1203 R1204	06S53330F32 06S64996F14	130 ohm 1/8W 330K ohm					·
R1204 R1205	06564996F14 06564996F14	330K ohm					
R1208	06S64995F79	12K ohm					
R1209	06564995F79	12K ohm	į	1			
R1210	06564995F81	15K ohm	į				
R1211 R1212	06S64995F81 06S64995F65	15K ohm 3.3K ohm					
R1213	06S53330F65	3.3K ohm 1/8W					
R1213	06S53330F85	22K ohm 1/8W		1			
R1215	06S64995F85	22K ohm					
		1-7531P Model only		Ļ			

Notes: O: For TDM-7531R Model only, □: For TDM-7532R Model only, Others: Common.



## **Cabinet Assembly Parts List**

Note: No parts number on parts list are not supplied.

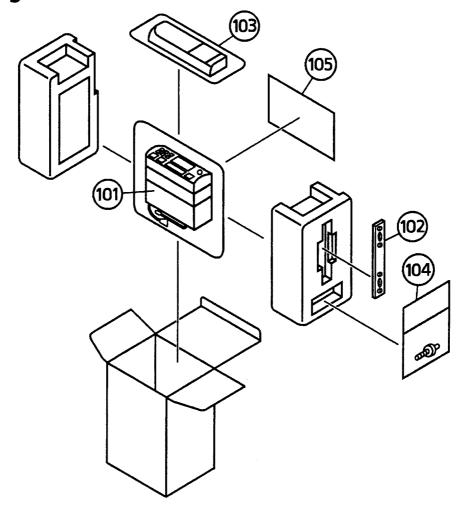
				Note .	NO part	Siluii	iber on parts	list are not supplied.
	mbol No.	index	Part No.	Description	Symbol No.	index	Part No.	Description
0 🗆 🗸	1 1 1 2 3	3-B 3-B 3-B 5-E 5-C	01V71800W61 01V71800W56 01V71700W43 13C70374W01 33C70276W01	Assy., Nose Unit Assy., Nose Unit Assy., Front Escutcheon				
	8 9 10 11 13	2-D 2-G 3-E	03544205G29 45C61079W01 03538013W02 03538013W24 77B60578W01	Screw, Pan (M2.6×14) Screw, Pan (M2.6×6)				
	16 17 18 19 20	3-C	15B70308W01 61A70307W01 15B70852W01 26A70309W01 75T75143W01	Lens, LCD Cover, LCD				
0 🗆 🛆	21 21 21 23 24	2-E	81D40887W02 81D40887W02 41A20424W01	Cassette Deck, GR75H110 Cassette Deck, GR75H120 Cassette Deck, GR75H120 Spring, Door Spacer, Remote				
004	25 26 26 26 26 27	3-C 3-B 3-B 3-B 3-D	07A71469W01 13D70279W09 13D70279W06 13D70279W03 13D70291W01	Assy., Nosepiece Assy., Nosepiece				
	28 29 30	3-D 2-G	03S68555F39 15A70387W01 03S38013W13	Screw, Countersink (M1.7×10) Holder, Antenna Screw, Bind (M2.6×6)				

Notes: O: For TDM-7531R Model only, ∆: For TDM-7535R Model only, Others: Common.

## **Packing Assembly Parts List**

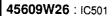
Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101	15D50406W01	Case, Inner	1		
102	07B64552F01	Bracket, Strap Receiver			
103	15D60773W01	Carring Case			
104-1	02B47353F01	Nut, Hex. (M5)			
104-2	03572235F13	Screw, Countersink (M5×8)			
104-3	46A42363F01	Stud, Bolt			
104-4	36A11113W01	Cap, Rubber (A)			
104-5	03A11112W01	Bolt, Hex. (M5)			
104-6	01T75363W01	JASO / ISO Antenna Adaptor			
105	68P61329W47	Owner's Manual			
			L		

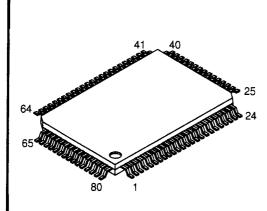
## **Packing Method View**



### **Semi - Conductor Lead Identifications**

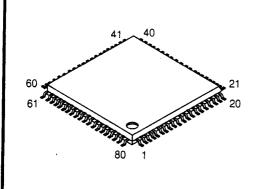
Note: For the parts not mentioned, refer to the Schematic Diagram.





PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0
1	NOSE ON	1	21	NC	<b>—</b>	41	LED IND	0	61	GND	-
2	AVREF	1	22	PWR IC ON	0	42	LCD CLK	0	62	GND	-
3	V <sub>DD</sub>	_	23	POWER CONT	0	43	GRNORG	0	63	GND	-
4	VDD	_	24	A.MUTE	0	44	LCD DATA	0	64	GND	_
5	AV REFOUT	0	25	NC	-	45	LCD INH	0	65	GND	-
6	PLAY SOL	0	26	NC	_	46	DTS MUTE	1	66	GND	_
7	RFSOL	0	27	NC	_	47	ACC+5	1	67	GND	_
8	EJECT SOL	0	28	IN INT	1	48	CHG D-IN	1	68	GND	_
9	MOTOR CONT	0	29	CHG D-OUT	0	49	REMOCON	1	69	GNID	-
10	O.MOTOR	0	30	E.VOL.CLK	0	50	DTS STATUS	I	70	GND	-
11	FOR/REV	0	31	E.VOL.DATA	0	51	DTSCMD	0	71	GND	_
12	O.FAST	0	32	NC	1	52	DTS SCK	0	72	GND	_
13	PACK IN	_	33	GND	_	53	BATT+5V	1	73	GND	_
14	M.S.DET	_	34	NC	_	54	GND		74	GND	_
15	GIND	_	35	DOLBY C	0	55	GND	_	75	GND	-
16	GIND	-	36	DOLBY B	0	56	NC	-	76	PACK DOWN	1
17	GND	_	37	LCD CE	0	57	GND	-	77	RUNDET	1
18	AREA 0	1	38	DTS CE	0	58	X1	1	78	KEY-IN ADO	1
19	AREA 1	1	39	DTS START	0	59	X2	0	79	KEY-IN AD1	1
20	TP ALARM	0	40	NOSE POWER	0	60	RESET	1	80	KEY-IN AD2	T

75099W04: IC504

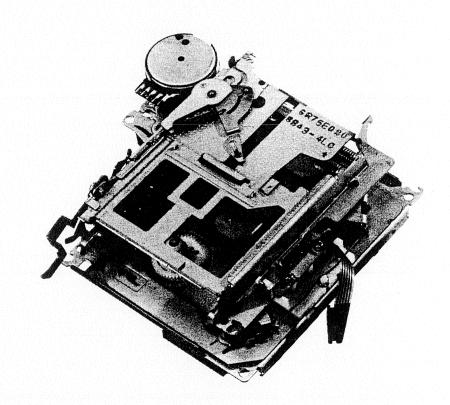


PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE ADDRESS	1/0	PIN NO.	CODE	1/0
1	LW	0	21	NC	_	41	NC	-	61	RDS CLK	1
2	LO/DX	0	22	NC	-	42	NC	-	62	RDS DATA	1
3	NC	-	23	NC	_	43	NC	_	63	DTSCE	1
4	AVSS	_	24	NC	_	44	NC	_	64	NC	T =
5	LPF SW	0	25	NC	_	45	NC	-	65	NC	_
6	IF MUTE	0	26	NC	-	46	NC	_	66	NC	-
7	AVREF1	ı	27	NC	_	47	NC	-	67	50K REF	0
8	PLL UP	_	28	NC	_	48	NC	_	68	VDD	_
9	NC		29	NC	-	49	NC	-	69	X2	0
10	NC	-	30	NC	-	50	NC	-	70	X1	1
11	PLL CLK	0	31	NC	-	51	NC	_	71	Vss	_
12	PLL DATA	0	32	NC	-	52	NC	_	72	NC	_
13	PLL CE	0	33	V <sub>SS</sub>	-	53	NC	-	73	PLL D-IN	1
14	DTSMUTE	0	34	NC	-	54	NC	-	74	AVDD	_
15	DTS START	ı	35	NC	-	55	NC	-	75	AV <sub>REF0</sub>	<u> </u>
16	DTSCMD	ı	36	NC	-	56	NC	_	76	S.METER	ī
17	DTSSTATUS	0	37	NC	-	57	NC	-	77	ADJ-ON	1
18	DTSCLOCK	1	38	NC	-	58	FWAM	0	78	MULTI PATH	1
19	NC	-	39	NC	-	59	AUDIO IN	ī	79	डा	1
20	NC	-	40	NC	-1	60	RESET	1	80	SD	1

# 1LPINE SERVICE MANUAL

Exploded View & Parts List For Cassette Deck Mechanism

## **ADDENDUM & REVISED**



GR SERIES

Contents —	
List of Usable Lock Washers	3
List of Usable Oil	3
List of Usable Jigs	3
Disassembly, Assembly and Replacement of Functional Parts	to 16
Exploded View (Cassette Deck)	to 18
Cassette Deck Assembly Parts List	to 20

#### **List of Usable Lock Washers**

	SIZE	PARTS NO.	QUANTITY
1	$(M1.2 \times 3.5 \times 0.25)$	04A41345P01	8
2	$(M1.7 \times 3.5 \times 0.25)$	04A41345P02	1
3	$(M2.1 \times 5 \times 0.25)$	04A41345P06	1
4	$(M1.2 \times 2.5 \times 0.25)$	04A41345P11	8
5	$(M1.7 \times 3.5 \times 0.35)$	04A41345P12	2
6	$(M1.2 \times 3.5 \times 0.35)$	04A41345P15	1
7	$(M1\times2.5\times0.25)$	04A41345P17	1
8	$(M2.6 \times 5 \times 0.25)$	04A41345P29	1
9	$(M3.1 \times 8 \times 0.05)$	04A41345P30	1
10	$(M1.7 \times 3 \times 0.25)$	04A41345P31	1
11	$(M3.1 \times 5 \times 0.35)$	04A41345P32	2

#### **List of Usable Oil**

- 1) Molykote E paste
- 2) Grease EM-30L3) Grease FLOIL 425A

#### **List of Usable Jigs**

- 1) GR bottom gear jig (Part No. 44A20788W01)
- 2) Head height adjustment gauge (M-300 or AT-500)

### Memo

# Disassembly, Assembly and Replacement of Functional Parts

#### 1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove M1 lock washer ① as shown in Figure 1.
- (3) Remove three screws (2) as shown in Figure 1.
- (4) Lift the bottom cover slowly from the position (1)-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (5) When remounting the bottom cover, first turn the front of the mechanism up as shown in Figure 2.
- (6) Slide the slider in the direction (A-2 as shown in Figure 2.
- (7) Push down the cassette holder in the direction(3) as shown in Figure 2.
- (8) Pull the door pin in the direction **(A)**-4 so that the mechanism is locked in as shown in Figure 2.
- (9) Turn the mechanism around as shown in Figure 3.
- (10) Pull the automatic metal lever in the direction (A)-5 and the RF solenoid chip in the direction (A)-6 as shown in Figure 3.
- (11)Insert the hooks of the bottom cover into the chassis in the direction (a)-7, and then join the part (a)-8 of the bottom cover to the chassis slowly, making sure that the 3 points indicated with the straight lines in the Figure 3 are fitted properly.
  - If there are troubles in mounting the bottom cover, do not apply force but remove the bottom cover once again and check the positions of the individual parts. (Refer to Figure 3.)
- (12)Since the hooks marked (A)-8 will be lifted slightly as shown in Figure 4, insert the jig through the hole (A)-9, and fix it turning the jig slightly.
  - Instead of operation (12), turn the gear nose slowly with a precision screwdriver etc., taking care not to damage it.
  - After 2 to 3 turns, it will click into place. (Refer to Figure 4 and 5.)
- (13)Fix the screws and the lock washer that have been removed.

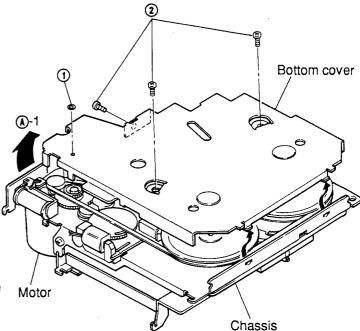


Figure 1

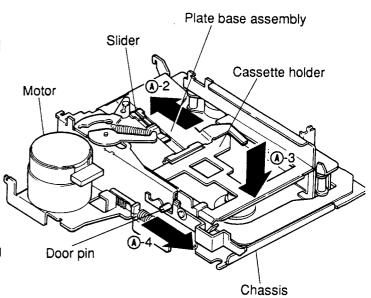


Figure 2

(14)Insert the jig into the hole (A)-9 as shown in Figure and rotate the eject solenoid counterclockwise about 20 times, pulling it in the direction (A)-10 with the finger.

Then the eject operation is completed.

Instead of operation (14), the eject operation can be performed by mounting the mechanism to the product. (Refer to Figures 4 and 5.)

**Note:** Do not reuse the used lock washers for mounting.

When turning the mechanism, be careful not to drop the gear and the flywheel. Fasten the three screws with a fastening

torque of 6 kg/cm.

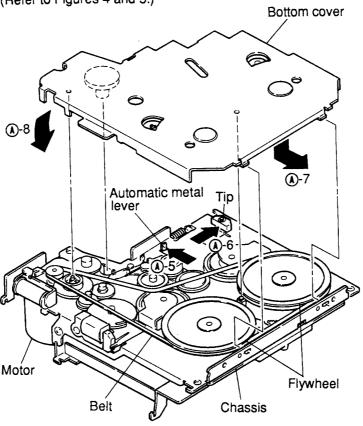


Figure 3

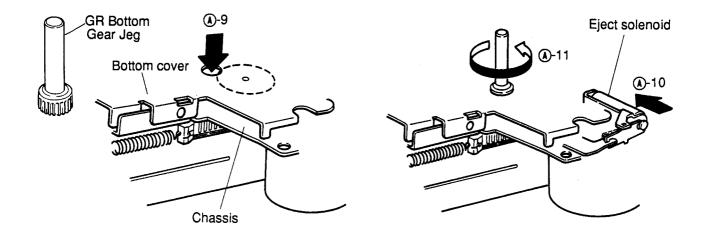


Figure 4

Figure 5

## 2. Replacement of the bottom cover mounting parts

- a. Replacement of the eject gear
  - (1) Remove M1.2 lock washer ③ as shown in Figure 6.
  - (2) Pull the eject pinion out of the eject gear and remove the eject gear as shown in Figure 6.
  - (3) Apply the molykote E paste to the section (8-1, and mount the eject gear following the removal steps in the reverse order. After replacement is finished, make sure that the gear rotates smoothly. (Refer to Figure 6.)

**Note:** Do not reuse the used lock washers for remounting.

Take care to avoid damage by piercing and tearing.

- b. Replacement of the RF solenoid
  - (1) Remove two solders (a) and remove the RF solenoid from the bottom cover by pulling it up as shown in Figure 6.
  - (2) Replace the solenoid with a new one, and remount it following the removal steps in the reverse order as shown in Figure 6.

Note: When removing solder (4), set the temperature of the soldering iron to 350° +/- 10° and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged.

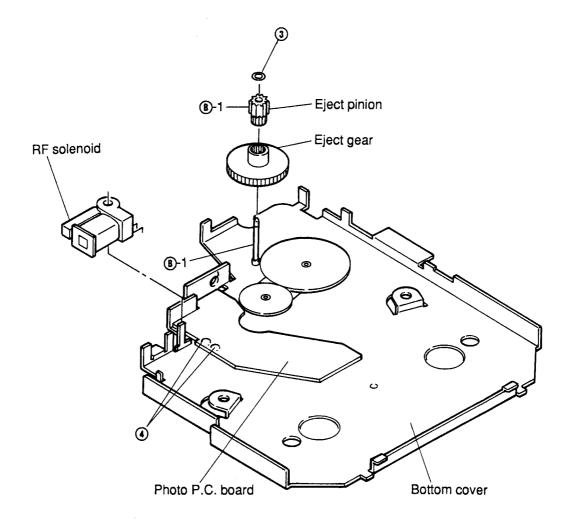


Figure 6

- c. Replacement of the photo sensor
  - (1) Remove four solders (5) as shown in Figure 7.
  - (2) Remove the photo guide together with the photo sensor from the photo PC board as shown in Figure 7.
  - (3) Insert the new photo sensor into the photo guide, and bend the legs of the photo sensor in the direction marked (8)-2 as shown in Figure 7.
  - (4) Insert the photo guide into the PC board and solder the legs so that the photo sensor is set as indicated by []] in Figure 7.

Note: When using the soldering iron, set the temperature of the soldering iron to 350° +/— 10° and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged. Also take care that the photo guide is properly fixed and straight.

- d. Replacement of the detector switch (Automatic metal packing ???)
  - (1) Remove 2 solders (a) with which the the switch is fixed as shown in Figure 7.
  - (2) Prepare the terminals of the switch of the new solder as shown in Figure 8.
  - (3) After that, insert the switch into the photo PC board, and solder the terminals.

Note: When using the soldering iron, refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Also take care that the switch guide is properly fixed and straight.

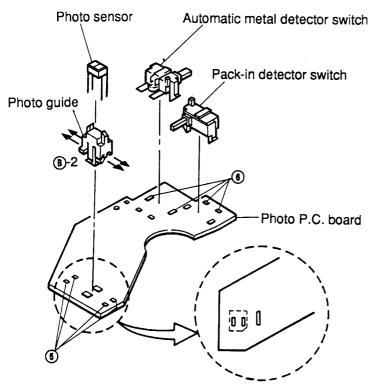


Figure 7

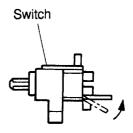


Figure 8

#### 3. Replacement of the mounting parts on the rear of the main chassis

#### a. Replacement of the belt

Flywheel

- (1) After removing the bottom cover, remove the
- (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 9.

Note: When fixing the belt, make sure that it is not twisted or dirty. When removing the belt, do not turn up the front of the chassis.

- b. Replacement of the motor
  - (1) After removing the belt, remove spring (7) as shown in Figure 10.
  - (2) Remove solder (8)-1, and remove the parallel wire (5P) from the control PC board as shown in Figure 11.
  - (3) Remove two screws (9) and (10), and remove the motor, taking care not to damage the motor idler gear. (Refer to Figure 10.)
  - (4) Mount the new motor following the removal steps in the reverse order.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Since the parallel wire is very easily damaged, handle it with care.

Fasten the two screws with a fastening

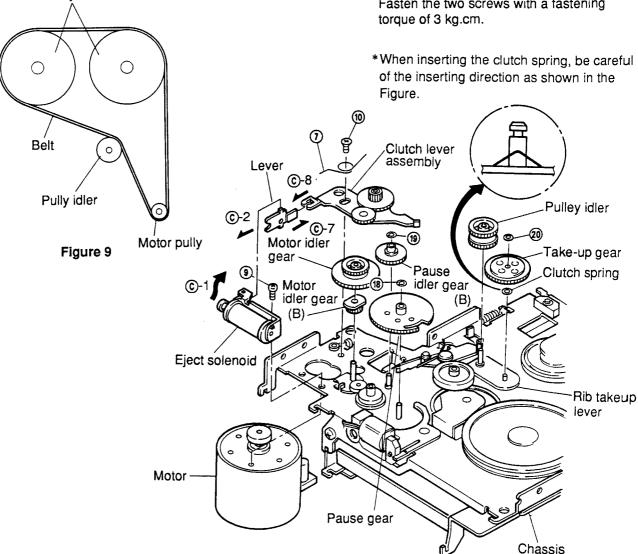


Figure 10

- c. Replacement of the flywheels
  - (1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer (1) located between the flywheel and the chassis. (Refer to Figure 12.)
  - (2) Fix the polyslider washer to the new flywheel and mount the flywheel to the chassis.
- d. Replacement of the play solenoid
  - (1) Remove the two solders (3)-2 as shown in Figure 11.
  - (2) Remove one screw ② and remove the solenoid as shown in Figure 11.
  - (3) Mount the new solenoid following the removal steps in the reverse order.

**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 2.3 kg.cm.

- e. Replacement of the eject solenoid
  - (1) Remove two solders **3**-3. Take care not to loose the tube that protects the wire. (Refer to Figure 11.)
  - (2) Remove screw (3) and remove the play solenoid as shown in Figure 10.
  - (3) Align position ©-1 of the new solenoid with position ©-2 of the lever and fasten the screws as shown in Figure 10.
  - (4) Lead the wire through the tube and solder it.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 3 kg.cm.

As the solder wires are not insulated, do not let them cross each other.

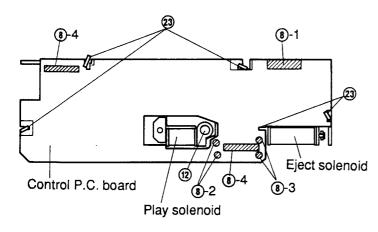


Figure 11

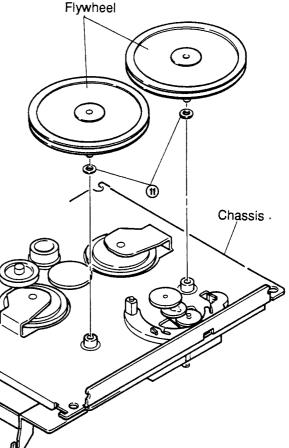


Figure 12

#### f. Replacement of gears

- (f-1) Replacement of the reverse idler gear
  - (1) Remove M1.2 lock washer (3), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
  - (2) Remount following the removal steps in the reverse order.

#### (f-2) Replacement of the sun gear

- (1) Remove M1.2 lock washer (4), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Mount it, following the removal steps in the reverse order.

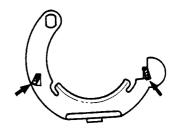
#### (f-3) Replacement of the fixing gear

- (1) Adjust the two mounting claws for the fix gear on the chassis (a) and remove the section (c)-3 of the gear by pulling it up in the direction of the arrow shown in Figure 13.
- (2) Insert the section ©-4 of the new gear into the chassis, and mount it following the removal steps in the reverse order as shown in Figure 13.
- (f-4) Replacement of the reverse lever assembly and planet gear
  - (1) Remove both the fixing gear and the sun gear and remove the reverse lever assembly as shown in Figure 13.
  - (2) Remove M1.7 lock washer (6) and remove the planet gear as shown in Figure 14.
  - (3) Mount the new planet gear and reverse lever following the removal steps in the reverse order.

#### Notes on f-1 through f-4:

After mounting all parts, check if the reverse lever assembly moves in the directions marked @-5 when the reverse gear is turned clockwise and counterclockwise.

\*After mounting the fixing gear, bend them into the form of as shown in the Figure.



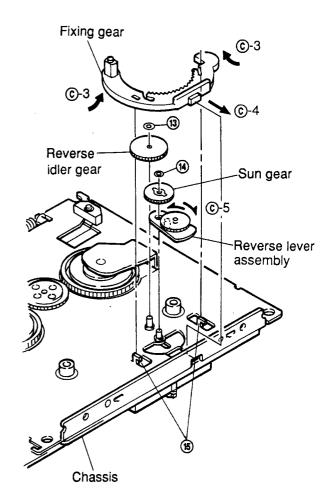


Figure 13

- (f-5) Replacement of the clutch lever assembly and eject idler gear
  - (1) After removing the motor, remove the motor idler gear and the motor idler gear (B) and remove the clutch lever assembly as shown in Figure 10.
  - (2) Remove M1.2 lock washer (1) and remove the eject idler gear as shown in Figure 15.
  - (3) Mount the new gears and clutch lever following the removal steps in the reverse order.

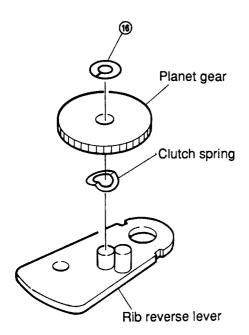
Note: When mounting the gears to the lever, apply grease (FLOIL 425A) to the position ©-6 as shown in Figure 15. Align the position ©-7 with the position ©-8 and mount the clutch lever as shown in Figure 10.

- (f-6) Replacement of the pause gear
  - (1) Remove M1.2 lock washer (1) and remove the pause gear pulling it up from the stud of the chassis as shown in Figure 10.
  - (2) Mount the new gear following the removal steps in the reverse order.

- (f-7) Replacement of the pause idler gear (B)
  - (1) After removing the motor and the motor idler gear, remove M1.2 lock washer (1) and remove the gear by pulling it up from the stud of the chassis as shown in Figure 10.
  - (2) Mount the new gear by following the removal steps in the reverse order.
- (f-8) Replacement of the take-up gear
  - (1) After removing the belt and the pulley idler gear, remove M1.2 lock washer @ by pulling it up from the stud of the rib take-up lever assembly as shown in Figure 10.
  - (2) Remount the take-up gear following the removal steps in the reverse order.

#### Notes on f:

Do not reuse the used washers. Take care to avoid damage by piercing and tearing.



[Disassembly Reverse Lever Assembly]

Figure 14

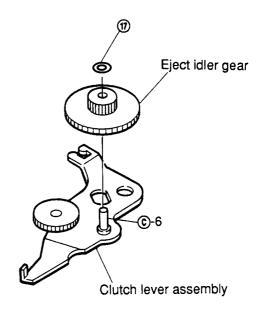
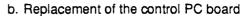


Figure 15

## 4. Replacement of the parts mounted on the front of the chassis

- a. Replacement of the audio PC board
  - (1) Remove two solders ② and remove the parallel wire (7P) and the head PC board as shown in Figure 16.
  - (2) Adjust the two claws ② to the rectangular holes on the PC board and remove the PC board as shown in Figure 16.
  - (3) After replacement, mount the new PC board following the removal steps in the reverse order.

Note: The head PC board and the parallel wires are easily damaged. Handle them with care. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head PC board.



- (1) Remove seven solders (3) and remove the three parallel wires and the wires of the eject solenoid and of the play solenoid as shown in Figure 11.
- (2) Remove the claws ② and remove the PC board as shown in Figure 11.
- (3) After replacing the old PC board with a new one, mount it following the removal steps in the reverse order.

Note: As mentioned in Item 4-a, handle the parallel wires carefully, and be sure that the temperature of the soldering iron and the soldering time are proper. As the wires of the eject solenoid are not insulated, do not let them cross each other.

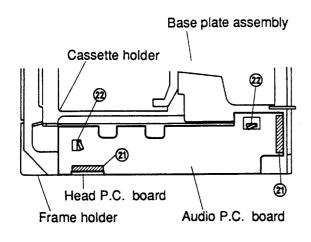


Figure 16

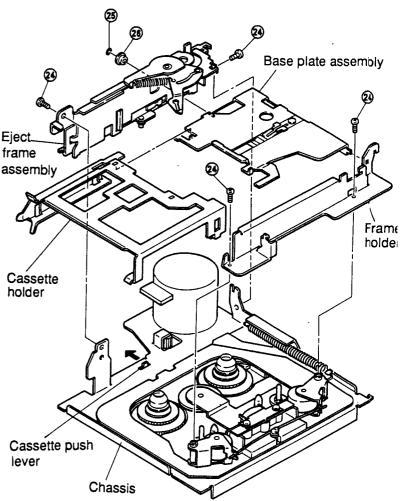


Figure 17

- c. Disassembly and assembly of the cassette holder
  - (1) Remove four screws ② and remove the eject frame assembly and the frame holder as shown in Figure 17.
  - (2) Remove M1.2 lock washer (2) and plate base roller (2) and remove the cassette holder and the base plate assembly as shown in Figure 17
  - (3) Remount them following the removal steps in the reverse order.
  - Notes: 1. When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 18).
    - When mounting the eject frame assembly, push the cassette push lever in the direction indicated by the arrow in the Figure 17.
    - When mounting the base plate
       assembly and the eject frame
       assembly, or when mounting the eject
       frame assembly to the chassis, do not
       apply excessive force to avoid
       deformations of the eject arm and the
       frame.

- d. Replacement of the reels
  - Remove M1.7 lock washers (a) (Refer to figure 19).
  - (2) Move the select lever in the direction marked ①1 in the Figure and remove the reel by gripping the reel gear as shown in Figure 19.
  - (3) After replacement, mount the new reels following the removal steps in the reverse order.
  - (4) After mounting, check the tape speed and the wow and flutter with test tape MTT-III.

Note: Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear.

Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

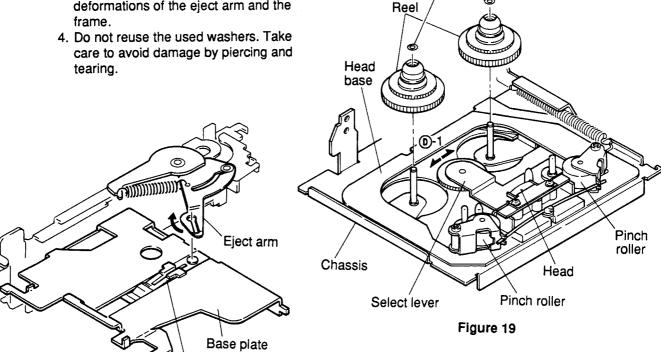


Figure 18

Slider

- e. Replacement of the pinch rollers
- (1) Remove pinch roller spring ② as shown in Figure 20.
- (2) Remove M3.1 lock washers ② and remove the pinch roller as shown in Figure 20.
- (3) Mount the pinch rollers following the removal steps in the reverse order.

  Apply insulation coating to the position (1)-2 of the pinch roller as shown in Figure 20.

Note: Make sure that the pinch rollers are thoroughly fixed and that they are not deformed. Do not reuse used lock washers. Take care to avoid damage by piercing and tearing.

- f. Replacement of the head
  - (1) After removing the pinch roller spring, remove two screws ② as shown in Figure 21.
  - (2) Remove solder ⓐ and remove the head from the head PC board as shown in Figure 22.
  - (3) After replacement, mount the new head following the removal steps in the reverse order.

Notes: 1. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head PC board. Make sure that the head PC board is not lifted.

 Fasten the two screws with a fastening torque of 2.3 kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.

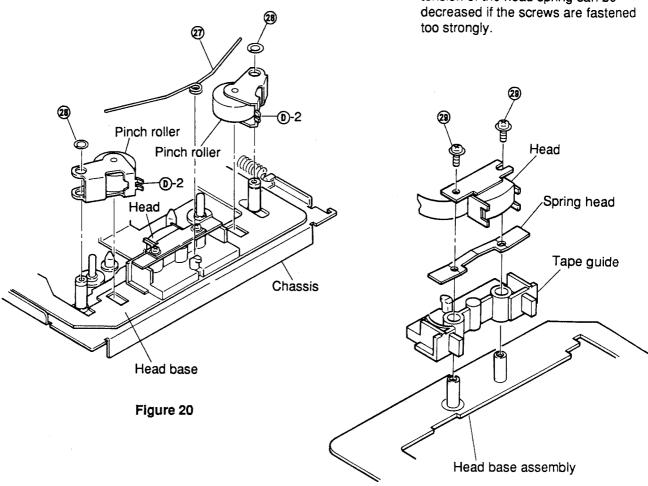
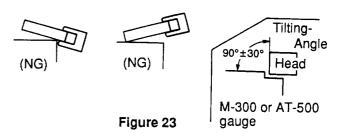


Figure 21

- (4) Adjust the height of the head as shown in Figures 23, 24 and 25.
- ① Place the height adjustment gauge (M-300 or AT-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
- ② When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t 0.1 mm or polislider washer t 0.13 mm). If necessary, remove the spacer.

Note: If you do not have a height gauge like described in (a)-(1), run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.

(5) After having assembled the complete mechanism, adjust the angle of the head with test tape MTT-113C. (Refer to chapter "Adjustment of the head angle".) After the adjustment, apply the screw lock and fix the screws.



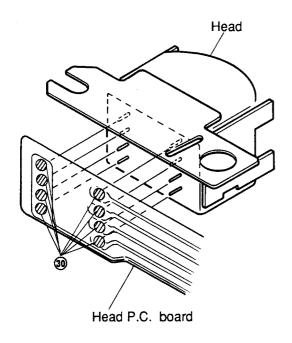


Figure 22

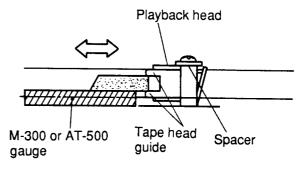
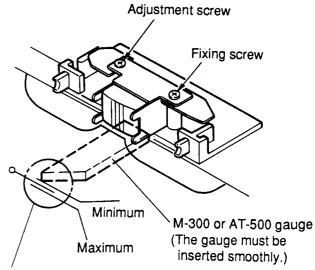


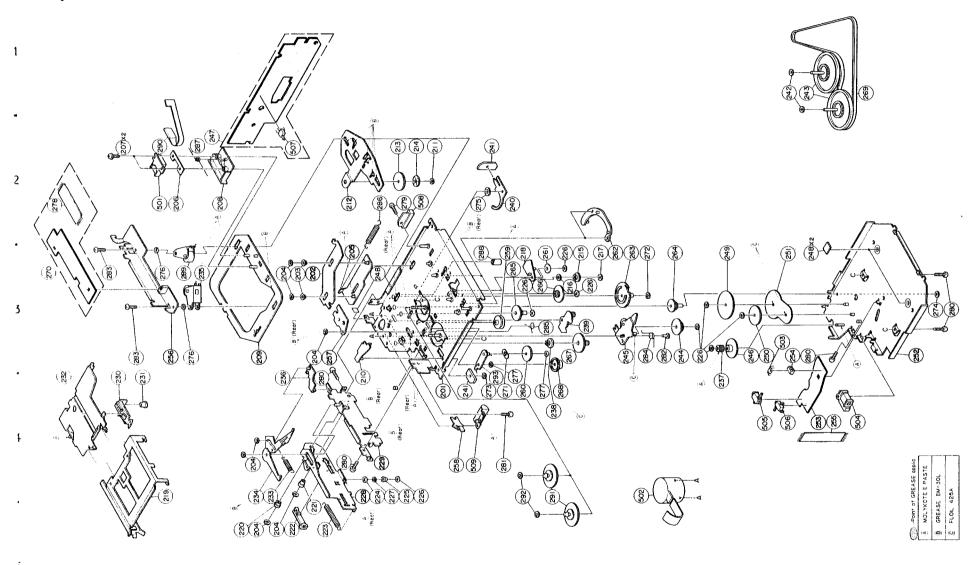
Figure 24



The nosepiece of the gauge must be between the minimum and maximum positions.

Figure 25

#### **Exploded View (Cassette Deck)**



## Cassette Deck Assembly Parts List Note: The parts without part numbers are not supplied.

				1				e. Inc parts w	ithout part numbers are	101 301	<i>,</i> p,,,
Symbol No.	IN- dex	Part No.	Description		I I '	mbol No.	1N- dex	Part No.	Description		
203	3-C	43A11072W01	Roller, Sub Head			248		43A90918F01	Spacer, Polyslider		
204		04A41345P01	Washer, Lock (M1.2)			249	3-F	44A11063W01	Gear, Bottom A		
206	2-B	41A10095W01	Spring, Head	Ì		250	3-F	44A11064W01	Gear. Bottom B		
207	2-B	03S40019G03	Screw, F-Locks (M2x4)			251	3-G	04A11122W01	Washer. GR		
208	2-B	43B12545W01	Tape. Guide			254	3-G	15B11065W01	Guide, Photo		
1 200	2-0	40012040#01	.upo. saite			•••		11011111111		1	
0.0	1	01A10206W01	Assy., Riv Lever R/F			255	4-G	30T15126W01	Wire, PC Sensor(7P)		
210	4-C	OINIUZUUNUI	Sol			258	4-D	45A10101W01	Lever, Eject Sol		
,,,	0.0	04A41345P29	Washer, Lock (M2.6)			259	3-D	49A10131W01	Pulley, idler		
211	2-D	44A10295W01	Gear, Sensor		11	260	4-E	44A10133W01	Gear, Take Up		
213	2-D	1	Reflector		1	261	3-E	44A10134W01	Gear. Sun		
214	2-D	14A10681W01	Gear. Planet			201	3 - 1	44710134#01	dear. Suit		
215	3-E	44A10142W01	dear. Franct			262	3-E	44B10135W01	Gear, Fix		
	0.5	41410007100	Coming Clusch			263	3-E	44B10136W01	Gear. Pause		
216	3-E	41A10097W02	Spring. Clutch			264	3-E	44810138W01 44810137W01	Gear. Pause Idler A		
217	3-E	04A41345P31	Washer, Lock (M1.7)						1		
218	3-E	01A10203W01	Assy., Riv Lever			265 266	3-D	44A10379W01 44A10138W01	Gear, Pause Idler B		
		00010000000	Reverse			200	3-E	44710190#01	Gear. Reverse Idler		
219	4-B	07B10074W01	Holder, Cassette			007	0.0	4441019000	Coop Notes 141		
220	5-B	43A12583W01	Roller, Eject		1.1	267	3-E	44A10139W01	Gear, Motor Idler		
						268	4-E	44A11062W01	Gear Reel Idler		
221	5-C	43A63281F01	Roller, Plate Base		$\prod_{-}$	269	1-G	42A10380W01	Belt. GR		
222	I	44A82206F01	Rack			270	3-A	01V14700W68	Assy. GR Audio		
223	1	41B10386W03	Spring, GR(Rack)			270	3-A	01V11500W19	Assy GR Audio		
224	4-C	43A10121W01	Roller, Eject A			l					
225	4-D	43A10360W01	Roller, Eject B	İ		270	3-A	01V11500W19	Assy., GR Audio	ĺ	
1		1				271	4-D	41A10097W02	Spring, Clutch		
226		04A41345P11	Washer, Lock(M1.2)			272	3-F	04A41345P15	Washer, Lock(M1.2)		
227	4-D	43A12377W01	Roller, Eject C			273	4-D	04A41345P02	Washer, Lock (M1.7)		
230	4-A	45B10376W01	Slider			274	3-H	04A41345P17	Washer, Lock(M1)		
231	4-B	47A63278F01	Shaft. Slider								
232	4-A	01A10212W01	AssyRiv Plate Base	}		275	2-D	04A41345P30	Washer, Lock(M3.1)		
					11	276	3-B	04A41345P32	Washer, Lock(M3.1)		
233	4-C	41B10386W01	Spring, Eject Arm			277		04A41345P06	Washer, Lock(M2.1)		
234	4-B	01A10148W01	Assy Riv Eject	ŀ	11	278	2-A	30T15126W02	Wire, PC Joint 7P		
			Arm A		11	279	2-D	03S44205G78	Screw, Pan(M2x6)		
235	3-B	01B10381W02	Assy Pinch Roller								
236	4-C	01A10202W01	Assy., Riv Lever			280		03S44205G30	Screw. Pan(M2.6x4)		
			Pack in SW			281	4-D	03S72235F38	Screw, Pan(M2x3.3)		
237	4-F	44A12975W01	Pinion, Eject			282	3-F	03A12132W02	Screw. Eject Clutch		
									(M2x2.3)		
238	4-E	44A13817W01	Gear, Motor Idler(B)	}		283		03S43997P64	Screw. Pan(M1.7x3)		
239	1	01A10201W01	Assy., Riv Lever			284	3-F	41A10384W01	Spring, Eject Clutch		
		1	Pause								
240	2-D	45A10092W01	Lever, Play		$\prod$	285	3-E	41A10385W01	Spring, Cas Push		
241		76T10374W01	Chip			286	2-C	41B10386W02	Spring, Sub Head		
242		04S40075G05	Washer Polyslider		$\Pi$	287	2-B	41A10387W01	SP. Pinch Roller		
			(M2.1)		11	288	3-D	43A12719W01	Roller, Pause		
					$\prod$	289	3-B	01B10381W01	Assy Pinch Roller		
243	1-G	01A10368W01	Assy., Flywheel								
244		44A10141W01	Gear. Eject Idler		$\prod$						
245	ł	01A10205W01	Assy. Riv Lever				1				
"	"		Clutch A								
246	3-F	44A10145W01	Gear, Eject					ļ			
247	1	01V11500W18	Assy. GR Control								
""	"	1	on control								
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Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only

▲ ; For GR75E01A model only Others ; Common

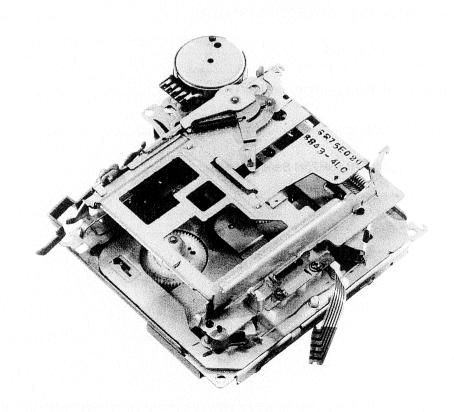
1 '	mbol	IN-	Part No.	Description		
	No.	dex				
1	290	2-B	84T10367W01	Panel Head		
•	291	4-E	01T15164W01	Assy., Reel		
		4-E	01T15164W01	Assy., Reel		
▲		- "	01T15164W02	Assy., Reel		
	292	4-E	04A41345P12	Washer, Lock(M1.7)	1	
	293	4-D	01A11078W01	Assy., Riv Lever		
				Take Up		
-	l		Mis	cellaneous		<u> </u>
L	50:					
•	501	2-B	88T15971W01	Head		
	501	2-B	88T10373W01	Head		
<b>A</b>		2-B	88T10373W01	Head		
}	i		01V11500W64	Assy., Motor		
	503	3-G	51T15144W01	Sensor, Photo		
			0.7.007.00	0/0.01		
	504	4-G	01T10371W01	R/F Sol. Assy.		
	505	4-F	40T15382W01	SW., Detector		
				(Pack Down)		
1	506	1	40T15382W01	SW. Detector(Metal)		ł
	507	2-C	40T15222W01	SW., Detector		
		0.0	01715040101	(Pack In)		]
	508	2-D	01T15249W01	Assy., Play Solenoid		
	509	4-D	01T10369W01	Assy., Eject Solenoid		
	303	4.0	01110003#01	Assy., Eject Solehold		
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Notes: ● ; For GR75E020 model only ■ ; For GR75E010 model only ▲ ; For GR75E01A model only Others ; Common

# MILPINE SERVICE MANUAL

## Cassette Deck Mechanism

## ADDENDUM & REVISED(V)



GR/GR-Y SERIES

Contents	
List of Usable Lock Washers	3
List of Usable Oil	3
List of Usable Jigs	3
Disassembly, Assembly and Replacement of Functional Parts	5 to 16
Exploded View (GR75E Series) (1/4)	17 to 18
Cassette Deck Assembly Parts List (GR75E Series) (1/4)	19 to 20
Exploded View (GR75L Series) (2/4)	21 to 22
Cassette Deck Assembly Parts List (GR75L Series) (2/4)	23 to 24
Exploded View (GR-Y Series) (3/4)	25 to 26
Cassette Deck Assembly Parts List (GR-Y Series) (3/4)	27 to 28
Exploded View (GR75H Series) (4/4)	29 to 30
Cassette Deck Assembly Parts List (GR75H Series) (4/4)	

GR/GR-Y Series

GR/GR-Y Series

#### Memo

### **List of Usable Lock Washers**

			QUANTITY						
$  \setminus  $	SIZE	PARTS NO.	GR75E	GR75L	GR-Y	GR75H			
			Series	Series	Series	Series			
1	$(M1.2 \times 3.5 \times 0.25)$	04B41345P01	4	4	4	2			
2	$(M1.7 \times 3.5 \times 0.25)$	04B41345P02	1	1	1	4			
3	$(M1.2 \times 2.5 \times 0.25)$	04B41345P11	8	8	8	9			
4	$(M1.7 \times 3.5 \times 0.35)$	04B41345P12	2	2	2	2			
5	$(M1.2\times3.5\times0.35)$	04B41345P15	2	2	2	2			
6	$(M1 \times 2.5 \times 0.25)$	04B41345P17	1	1	1	2			
7	$(M2.6 \times 5 \times 0.25)$	04B41345P29	1	1	1	1			
8	$(M3.1 \times 8 \times 0.05)$	04B41345P30	1	1	1	1			
9	$(M3.1 \times 5 \times 0.35)$	04B41345P32	2	2	2	2			
10	$(M1.2 \times 2.5 \times 0.3)$	04B41345P34	1	1	1	0			
11	$(M1.7 \times 2.8 \times 0.25)$	04B41345P35	1	1	1	2			
12	$(M2.1 \times 4 \times 0.25)$	04B41345P37	1	1	1	0			
13	$(M2.1 \times 4 \times 0.13)$	04S40075G05	2	2	2	0			
14	$(M2.1 \times 4 \times 0.3)$	04S40075G58	0	0	0	1			

### **List of Usable Oil**

- Molykote G paste
   Grease EM-30L
   Grease PG-671

## **List of Usable Jigs**

- GR bottom gear jig (Part No. 44A20788W01)
   Head height adjustment gauge AI-500 (Part No. AI-500)

# Disassembly, Assembly and Replacement of Functional Parts

#### 1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove M1 lock washer ① as shown in Figure 1.
- (3) Remove three screws ② as shown in Figure 1.
- (4) Lift the bottom cover slowly from the position (a)-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (5) When remounting the bottom cover, first turn the front of the mechanism up as shown in Figure 2.
- (6) Slide the slider in the direction (4)-2 as shown in Figure 2.
- (7) Push down the cassette holder in the direction (A)-3 as shown in Figure 2.
- (8) Pull the door pin in the direction (a)-4 so that the mechanism is locked in as shown in Figure 2.
- (9) Turn the mechanism around as shown in Figure 3.
- (10)Pull the automatic metal lever in the direction
  (a)-5 and the RF solenoid chip in the direction
  (a)-6 as shown in Figure 3.
- (11) Insert the hooks of the bottom cover into the chassis in the direction (a)-7, and then join the part (a)-8 of the bottom cover to the chassis slowly, making sure that the 3 points indicated with the straight lines in the Figure 3 are fitted properly.
  - If there are troubles in mounting the bottom cover, do not apply force but remove the bottom cover once again and check the positions of the individual parts. (Refer to Figure 3.)
- (12)Since the hooks marked (A)-8 will be lifted slightly as shown in Figure 4, insert the jig through the hole (A)-9, and fix it turning the jig slightly in the direction (A)-11. Instead of operation (12), turn the gear nose slowly with a precision screwdriver etc., taking care not to damage it.
  - After 2 to 3 turns, it will click into place. (Refer to Figures 4 and 5.)
- (13) Fix the screws and the lock washer that have been removed.

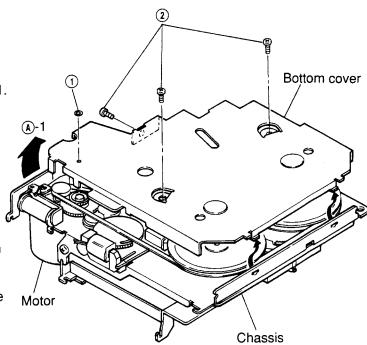


Figure 1

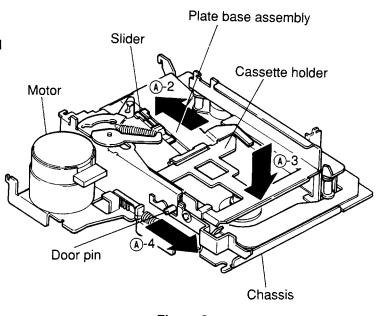


Figure 2

(14)Insert the jig into the hole (a)-9 as shown in Figure and rotate the eject solenoid counterclockwise about 20 times, pulling it in the direction (a)-10 with the finger.

Then the eject operation is completed.

Instead of operation (14), the eject operation can be performed by mounting the mechanism to the product. (Refer to Figures 4 and 5.)

Note: Do not reuse the used lock washers for mounting.

When turning the mechanism, be careful not to drop the gear and the flywheel.

Fasten the three screws with a fastening torque of 6 kg.cm.

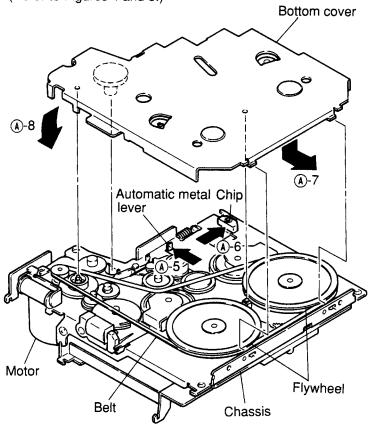


Figure 3

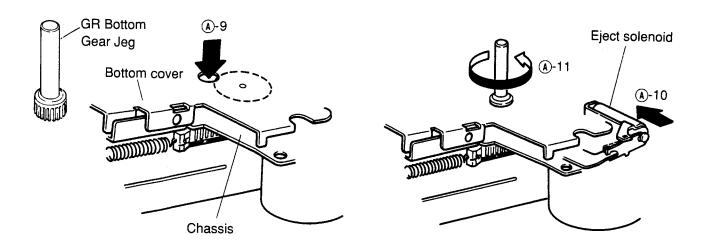


Figure 4

Figure 5

## 2. Replacement of the bottom cover mounting parts

- a. Replacement of the eject gear
- (1) Remove M1.2 lock washer ③ as shown in Figure 6.
- (2) Pull the eject pinion out of the eject gear and remove the eject gear as shown in Figure 6.
- (3) Apply the molykote E paste to the section (8-1, and mount the eject gear following the removal steps in the reverse order. After replacement is finished, make sure that the gear rotates smoothly. (Refer to Figure 6.)

**Note:** Do not reuse the used lock washers for remounting.

Take care to avoid damage by piercing and tearing.

- b. Replacement of the RF solenoid
- (1) Remove two solders ④ and remove the RF solenoid from the bottom cover by pulling it up as shown in Figure 6.
- (2) Replace the solenoid with a new one, and remount it following the removal steps in the reverse order as shown in Figure 6.
- Note: When removing solder ④, set the temperature of the soldering iron to 350° ± 10° and the soldering time to 1 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged.

- c. Replacement of the photo sensor
  - (1) Remove four solders (5) as shown in Figure 7.
  - (2) Remove the photo guide together with the photo sensor from the photo P.C. board as shown in Figure 7.
  - (3) Insert the new photo sensor into the photo guide, and bend the legs of the photo sensor in the direction marked (B)-2 as shown in Figure 7.
  - (4) Insert the photo guide into the P.C. board and solder the legs so that the photo sensor is set as indicated by [[]] in Figure 7.

**Note:** When using the soldering iron, set the temperature of the soldering iron to  $350^{\circ} \pm 10^{\circ}$  and the soldering time to 1-3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged. Also take care that the photo guide is properly fixed and straight.

- d. Replacement of the detector switch (Automatic metal pack-in)
- (1) Remove 4 solders (6) with which the switch is fixed as shown in Figure 7.
- (2) Prepare the terminals of the switch of the new solder as shown in Figure 8.
- (3) After that, insert the switch into the photo P.C. board, and solder the terminals.

Note: When using the soldering iron, refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Also take care that the switch guide is properly fixed and straight.

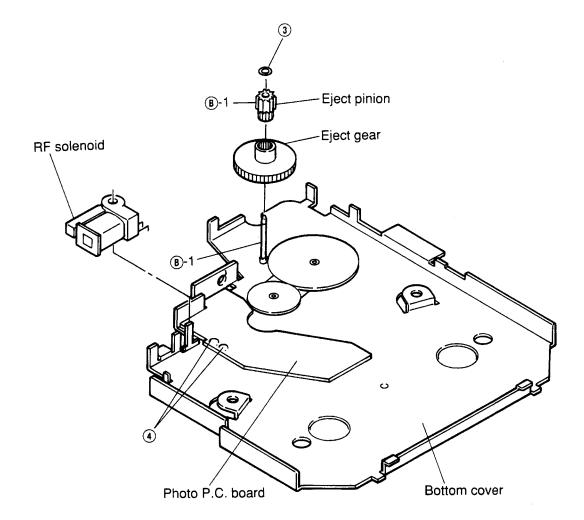


Figure 6

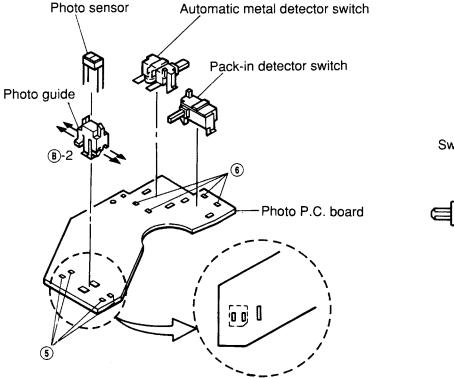


Figure 7

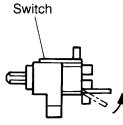


Figure 8

## 3. Replacement of the mounting parts on the rear of the main chassis

- a. Replacement of the belt
- (1) After removing the bottom cover, remove the belt.
- (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 9.

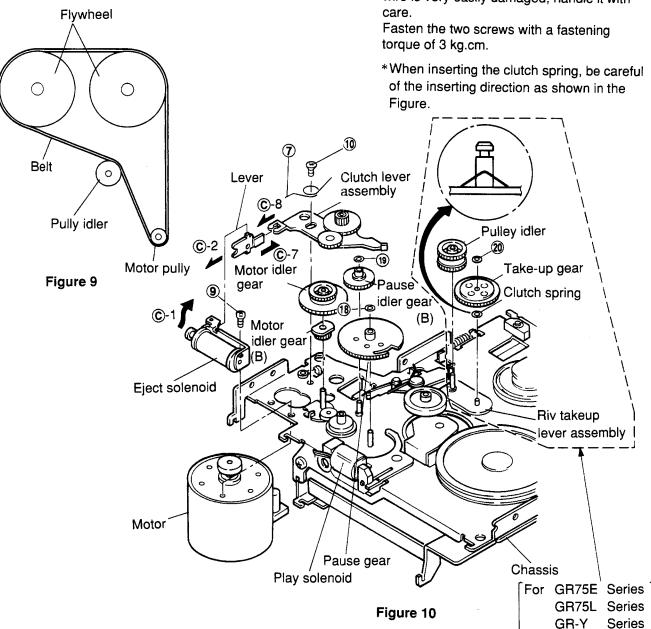
**Note:** When fixing the belt, make sure that it is not twisted or dirty. When removing the belt, do not turn up the front of the chassis.

b. Replacement of the motor

- (1) After removing the belt, remove spring ① as shown in Figure 10.
- (2) Remove solder (8)-1, and remove the parallel wire (5P) from the control P.C. board as shown in Figure 11.
- (3) Remove two screws (9) and (10), and remove the motor, taking care not to damage the motor idler gear. (Refer to Figure 10.)
- (4) Mount the new motor following the removal steps in the reverse order.

**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Since the parallel wire is very easily damaged, handle it with care.

models



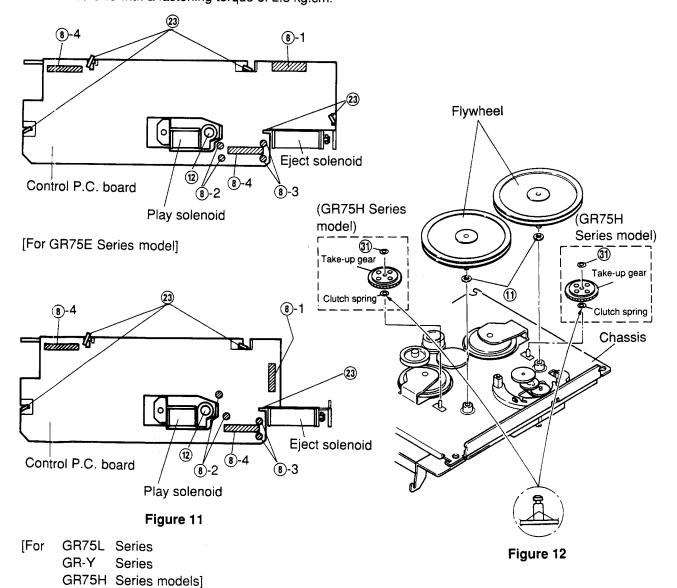
c. Replacement of the flywheels

- (1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer (1) located between the flywheel and the chassis. (Refer to Figure 12.)
- (2) Fix the polyslider washer to the new flywheel and mount the flywheel to the chassis.
- d. Replacement of the play solenoid
- (1) Remove the two solders (8)-2 as shown in Figure 11.
- (2) Remove one screw ② and remove the solenoid as shown in Figure 11.
- (3) Mount the new solenoid following the removal steps in the reverse order.

**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 2.3 kg.cm.

- e. Replacement of the eject solenoid
- (1) Remove two solders (8)-3. Take care not to loose the tube that protects the wire. (Refer to Figure 11.)
- (2) Remove screw (9) and remove the solenoid as shown in Figure 10.
- (3) Align position ©-1 of the new solenoid with position ©-2 of the lever and fasten the screw as shown in Figure 10.
- (4) Lead the wire through the tube and solder it.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 3 kg.cm. As the solenoid wires are not insulated, do not let them cross each other.



- 9 -

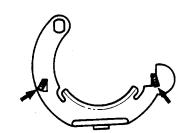
#### f. Replacement of gears

- (f-1) Replacement of the reverse idler gear
- (1) Remove M1.2 lock washer (3), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Remount following the removal steps in the reverse order.
- (f-2) Replacement of the sun gear
- (1) Remove M1.2 lock washer (4), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Mount it, following the removal steps in the reverse order.
- (f-3) Replacement of the fixing gear
- (1) Adjust the two mounting claws for the fix gear on the chassis (§) and remove the section (©)-3 of the gear by pulling it up in the direction of the arrow shown in Figure 13.
- (2) Insert the section ©-4 of the new gear into the chassis, and mount it following the removal steps in the reverse order as shown in Figure 13.
- (f-4) Replacement of the reverse lever assembly and planet gear
- (1) Remove both the fixing gear and the sun gear and remove the reverse lever assembly as shown in Figure 13.
- (2) Remove M1.7 lock washer (6) and remove the planet gear as shown in Figure 14.
- (3) Mount the new planet gear and reverse lever following the removal steps in the reverse order.

#### Notes on f-1 through f-4:

After mounting all parts, check if the reverse lever moves in the directions marked ©-5 when the reverse gear is turned clockwise and counterclockwise.

\*After mounting the fixing gear, bend the claws (§) into the form of as shown in the Figure.



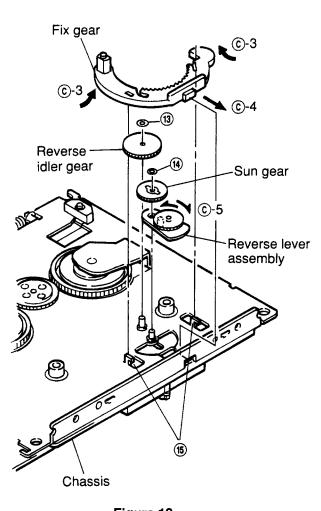


Figure 13

- (f-5) Replacement of the clutch lever assembly and eject idler gear
  - (1) After removing the motor, remove the motor idler gear and the motor idler gear (B) and remove the clutch lever assembly as shown in Figure 10.
  - (2) Remove M1.2 lock washer ① and remove the eject idler gear as shown in Figure 15.
  - (3) Mount the new gears and clutch lever following the removal steps in the reverse order.

Note: When mounting the gears to the lever, apply grease (PG-671) to the position ©-6 as shown in Figure 15. Align the position ©-7 with the position ©-8 and mount the clutch lever as shown in Figures 10 and 15.

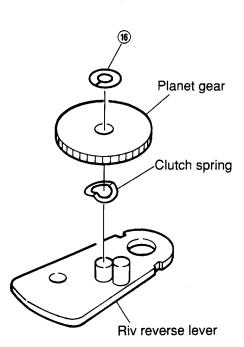
- (f-6) Replacement of the pause gear
  - (1) Remove M1.2 lock washer ® and remove the pause gear pulling it up from the stud of the chassis as shown in Figure 10.
  - (2) Mount the new gear following the removal steps in the reverse order.

- (f-7) Replacement of the pause idler gear (B)
- (1) After removing the motor and the motor idler gear, remove M1.2 lock washer (19) and remove the gear by pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear by following the removal steps in the reverse order.
- (f-8) Replacement of the take-up gear
  - (1) After removing the belt and the pulley idler gear, remove M1.2 lock washer ② by pulling it up from the stud of the riv take-up lever assembly as shown in Figure 10.

    After removing the Flywheel, remove M1.2 lock washer ③ and remove the gear by pulling it up from the stud of the chassis as shown in figure 12. [For GR75H Series model]
- (2) Remount the take-up gear following the removal steps in the reverse order.

#### Notes on f:

Do not reus e the used washers. Take care to avoid damage by piercing and tearing.



[Disassembly Reverse Lever Assembly]

Figure 14

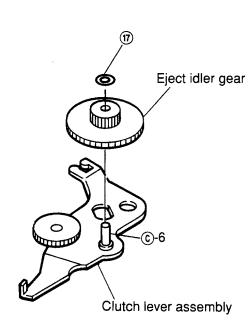


Figure 15

### 4. Replacement of the parts mounted on the front of the main chassis

- a. Replacement of the audio P.C. board
  - (1) Remove two solders ② and remove the parallel wire (7P) and the head P.C. board as shown in Figure 16.
  - (2) Adjust the two claws ② to the rectangular holes on the P.C. board and remove the P.C. board as shown in Figure 16.
  - (3) After replacement, mount the new P.C. board following the removal steps in the reverse order.

Note: The head P.C. board and the parallel wire are easily damaged. Handle them with care. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board.

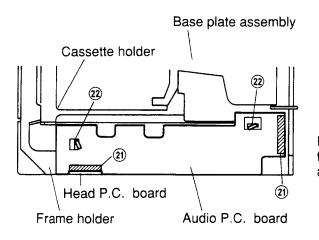


Figure 16

- b. Replacement of the control P.C. board
  - (1) Remove seven solders (8) and remove the three parallel wires and the wires of the eject solenoid and of the play solenoid as shown in Figure 11.
  - (2) Remove five claws ② and remove the P.C. board as shown in Figure 11. [For GR75E Series model] Remove four claws ② and remove the P.C. board as shown in Figure 11. [For GR75L Series, GR-Y Series, GR75H Series models]
  - (3) After replacing the old P.C. board with a new one, mount it following the removal steps in the reverse order.

Note: As mentioned in Item 4-a, handle the parallel wires carefully, and be sure that the temperature of the soldering iron and the soldering time are proper. As the wires of the eject solenoid are not insulated, do not let them cross each other.

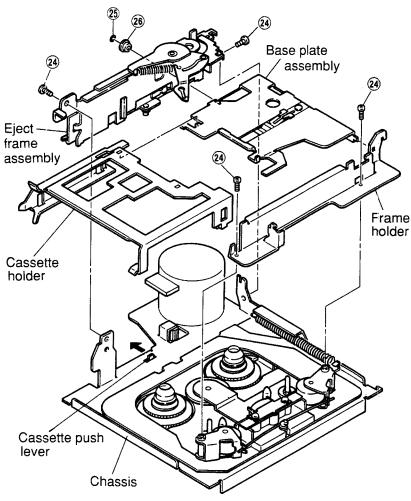


Figure 17

- c. Disassembly and assembly of the cassette holder
  - (1) Remove four screws (2) and remove the eject frame assembly and the frame holder as shown in Figure 17.
  - (2) Remove M1.2 lock washer (3) and plate base roller (3) and remove the cassette holder and the base plate assembly as shown in Figure 17.
  - (3) Remount them following the removal steps in the reverse order.

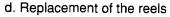
Notes: 1. When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 18).

- When mounting the eject frame assembly, push the cassette push lever in the direction indicated by the arrow in the Figure 17.
- 3. When mounting the base plate assembly and the eject frame assembly, or when mounting the eject frame assembly to the chassis, do not apply excessive force to avoid deformations of the eject arm and the frame.
- Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

Eiect arm

Base plate

Slider



- (1) Remove M1.7 two lock washers ② (Refer to figure 19).
- (2) Move the select lever in the direction marked
   ①-1 in the Figure and remove the reel by gripping the reel gear as shown in Figure 19.
- (3) After replacement, mount the new reels following the removal steps in the reverse order.
- (4) After mounting, check the tape speed and the wow and flutter with test tape MTT-111.

**Note:** Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

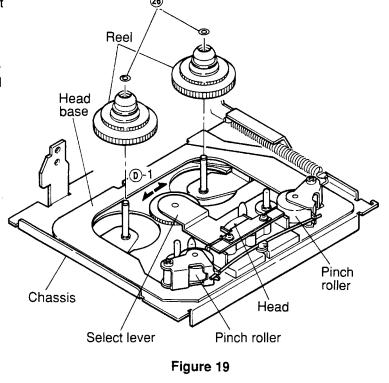


Figure 18

- e. Replacement of the pinch rollers
  - (1) Remove pinch roller spring ② as shown in Figure 20.
  - (2) Remove M3.1 two lock washers ② and remove the pinch roller as shown in Figure 20.
  - (3) Mount the pinch rollers following the removal steps in the reverse order.

    Apply insulation coating to the position (1)-2 of the pinch roller as shown in Figure 20.

Note: Make sure that the pinch rollers are thoroughly fixed and that they are not deformed. Do not reuse used lock washers. Take care to avoid damage by piercing and tearing.



- (1) After removing the pinch roller spring, remove two screws ② as shown in Figure 21.
- (2) Remove solder (3) and remove the head from the head P.C. board as shown in Figure 22.
- (3) After replacement, mount the new head following the removal steps in the reverse order.
- Notes: 1. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board. Make sure that the head P.C. board is not lifted.
  - Fasten the two screws with a fastening torque of 2.3 kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.

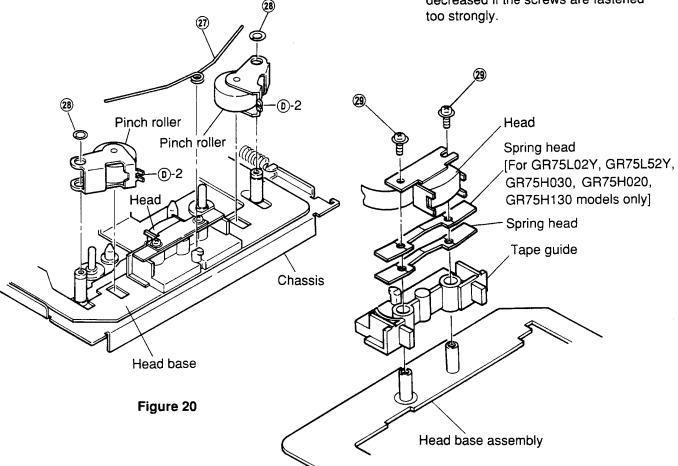
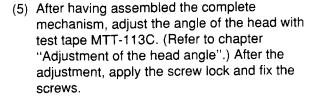


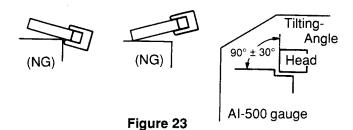
Figure 21

- (4) Adjust the height of the head as shown in Figures 23, 24 and 25.
- ① Place the height adjustment gauge (AI-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
- When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t 0.1 mm or polislider washer t 0.13 mm).

  If necessary, remove the spacer.

Note: If you do not have a height gauge like described in (4)-1, run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.





Head P.C. board

Figure 22

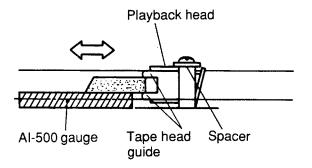
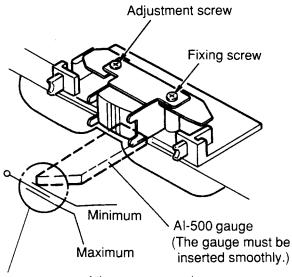


Figure 24

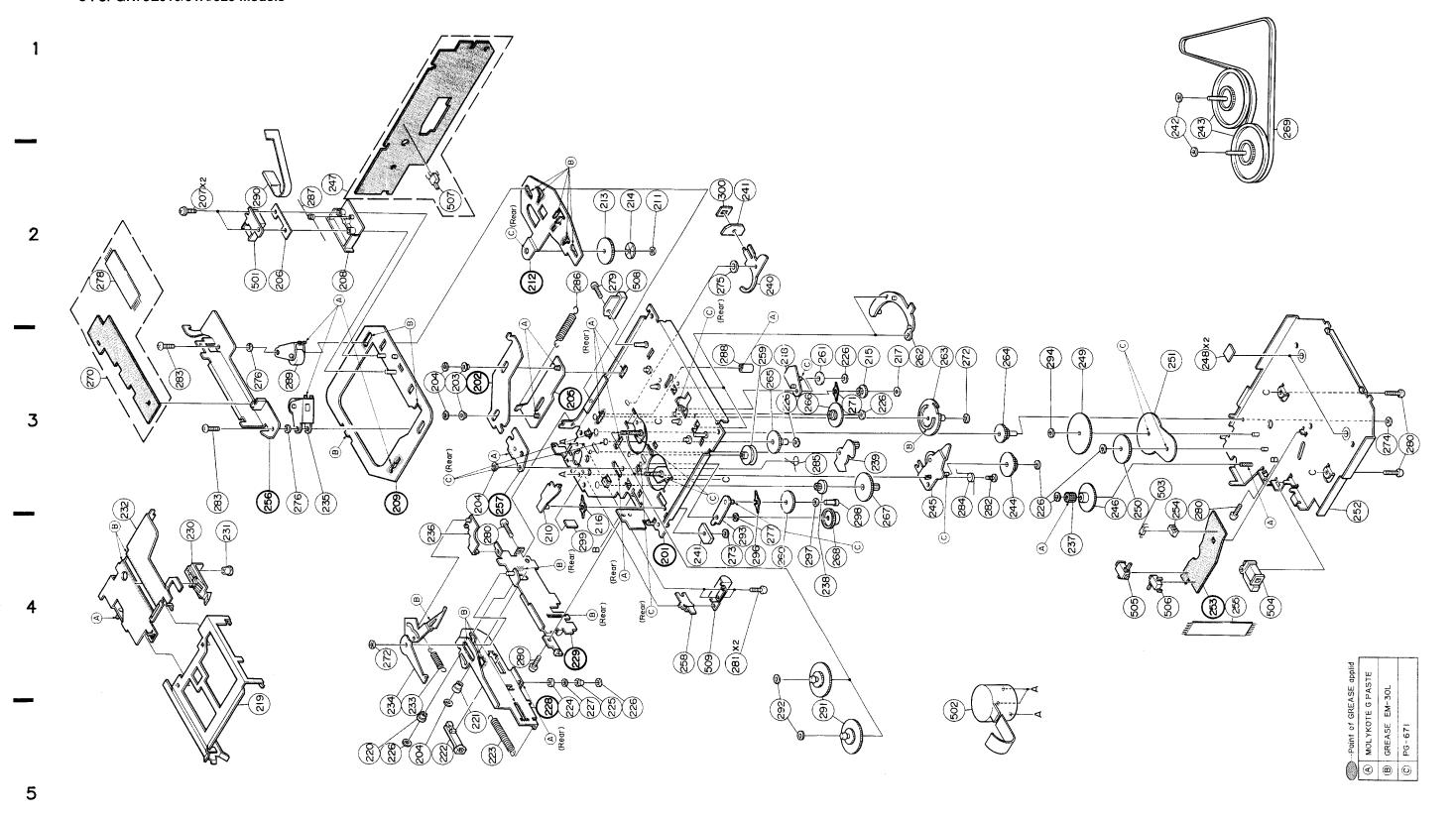


The nosepiece of the gauge must be between the minimum and maximum positions.

Figure 25

#### Exploded View (GR75E Series) (1/4)

● For GR75E010/01A/020 Models



A | B C | D | E | F | G |

# Cassette Deck Assembly Parts List (GR75E Series) (1/4)

-	ipol	1 N-	Part No.	Description
	10.	dex		D.11 O.b.P
	203	3-C	43A11072W01	Roller. Sub Head
Ì	204		04B41345P01	Washer, Lock(M1.2)
	206	2-B	41A31756W01	Spring, Head
	207	2-B	03S40019G03	Screw. F-Locks (M2x4)
	208	2-В	43B12545W01	Tape. Guide
	210	4-C	01A10206W01	Assy Riv Lever R/F
				Sol
	211	2-D	04B41345P29	Washer, Lock(M2.6)
	213	2-D	44A10295W01	Gear. Sensor
	214	2-D	14A10681W01	Reflector
	215	3-E	44A30480W01	Gear. Planet
	0.1.0	912	41A10097W02	Spring, Clutch
	216	3-E	04B41345P35	Washer, Lock(M1.7)
	217	3-E	01A30824W01	Assy. Riv Lever
	218	3-E	01720074#01	Reverse
_	219	4-B	07B40283W01	Holder, Cassette
	219	4-B	07B40283W01	Holder. Cassette
▲	219	4-B	07B10074W01	Holder, Cassette
	220	5-B	43A12583W01	Roller, Eject
	221	5-C	43A63281F01	Roller, Plate Base
	222	5-C	44A82206F01	Rack
	223	5-C	41B10386W03	Spring, GR(Rack)
	001	4.0	49430191801	Roller, Eject A
	224	4-C	43A10121W01	Roller, Eject B
	225	4-D	43A10360W01	
	226		04B41345P11	Washer, Lock (M1.2)
	227	4-D	43A12377W01	Roller, Eject C
	230	4-A	45B10376W01	Slider
	231	4-B	47AG3278F01	Shaft, Slider
	232	4-A	01A10212W01	AssyRiv Plate Base
	233	4-C	41B10386W01	Spring. Eject Arm
	234	4-B	01A10148W01	Assy. Riv Eject
	0.05	3-B	01B30863W02	Arm A Assy., Pinch Roller
	235	3-0	01030003#02	hosy. Then hopes
	236	4-C	45A10087W01	Lever Pack In SW
	237	4-F	44A12975W01	Pinion, Eject
	238	4-E	44A13617W01	Gear. Motor Idler(B)
	239	3-E	01A10201W02	Assy., Riv Lever
	240	2-D	45A40725W01	Lever. Play Sol
	241		76T10374W01	Chip
	242	1-G	04S40075G05	Washer Polyslider (M2.1)
	243	1-G	01A10368W01	
	244			
	245	1		1
	230			Clutch A

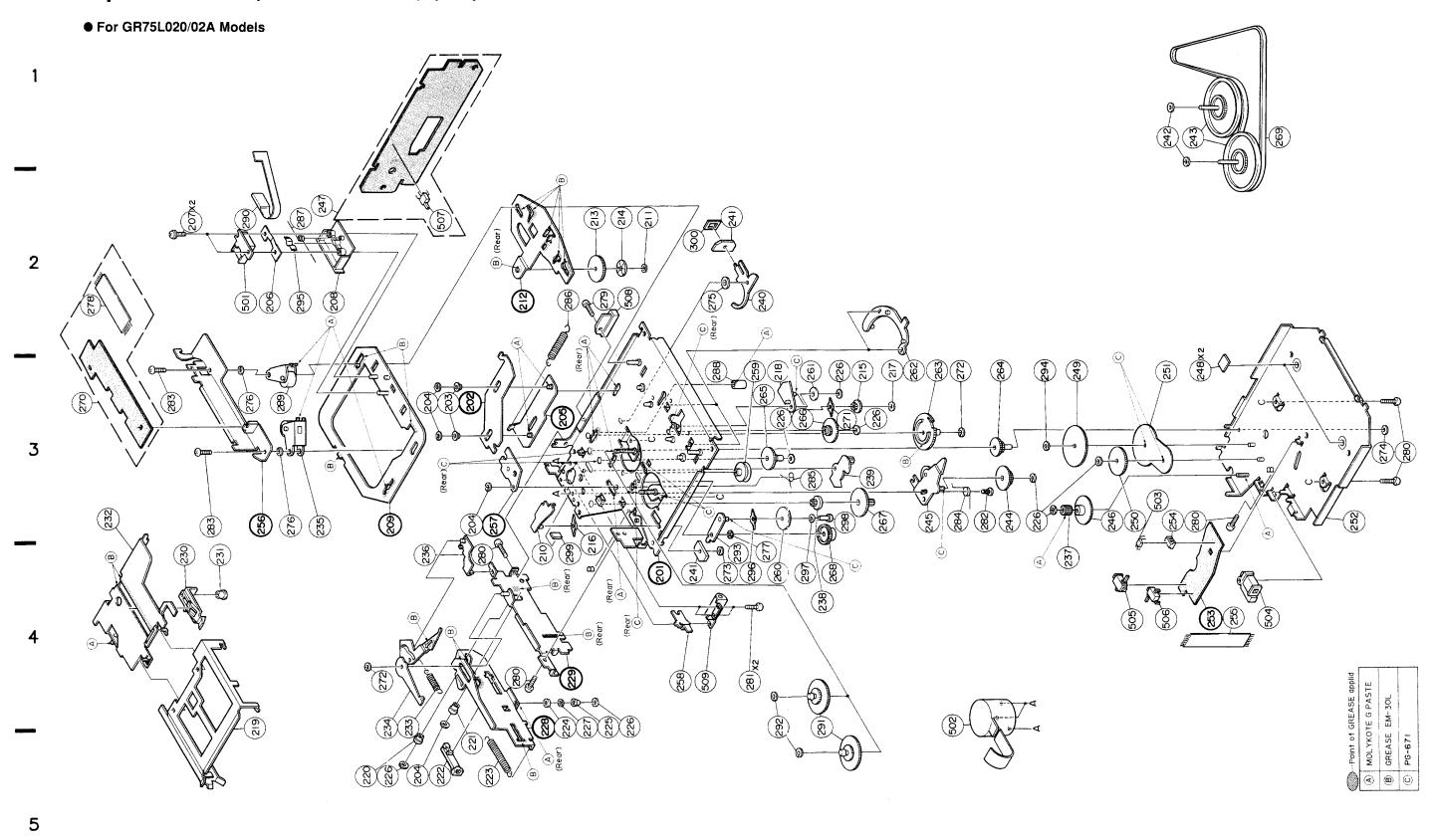
		`		
	T		: The parts w	ithout parts list are not supplied.
	bol	1 N-	Part No.	Description
	0.	dex	11110115001	Cons Figor
- 1	246	3-F	44A10145W01	Gear, Eject
	247	2-B	01V11500W18	Assy., GR Control
				P.C. Board
	248	3-G	43A41656W01	Spacer, UHMW
İ	249	3-F	44A11063W01	Gear. Bottom A
	250	3-F	44A11064W01	Gear. Bottom B
			0.4444.000.00	Washer, GR
	251		34A11122W02	Assy., Riv. Cover Bottom
	252		01A10210W02	Guide, Photo
	254		15B11065W01	<b>↓</b>
	255			Wire, PC Sensor(7P)
	258	4-D	45A10101W01	Lever, Eject Sol
	259	3-D	49A10131W01	   Pulley.   Idler
	260	4-E	44A10133W01	Gear, Take Up
Ì	261	3-E	44A10134W01	Gear, Sun
		ļ	44B10135W01	Gear, Fix
	262		44B30484W01	Gear, Pause
	263	3-E	44000404#01	deal , lause
	264	3-F	44A10137W01	Gear, Pause Idler A
	265	i	44A10379W01	Gear. Pause Idler B
	266		44A10138W01	Gear, Reverse Idler
	267	3-E	44A10139W01	Gear, Motor Idler
		4-E	44A11062W01	Gear, Reel Idler
	268	4-1	44/11/02/01	ocar noor rare
	269	1-G	42A10380W01	Belt, GR
•	270	3-A	01V14700W68	Assy., GR Audio
	!			P.C. Board
	270	3−٨	01V11500W19	Assy GR Audio
				P.C. Board
	270	3-A	01V11500W19	Assy GR Audio
				P.C. Board
	271	3-E	41A30475W01	Spring. Clutch
	272			Washer, Lock(M1.2)
	273	4-D	04B41345P02	Washer, Lock(M1.7)
1	274	3-11	04B41345P17	Washer, Lock(M1)
1	275	2-D	04B41345P30	
	276		04B41345P32	Washer, Lock(M3.1)
			OAD 110 15 DOG	Weeker Lock/W2 1)
	277	4-E	04B41345P37	
İ	278	2-A	30T15126W02	- (1)0 0
	279	2-D	03S44205G78	
	280		03S44205G30	
	281	4-D	03S72235F53	Screw. Pan(M2x3.3)
	282	3-1	03A12132W02	Screw. Eject Clutch
	102	"		(M2x2.3)
	283		03\$43997P64	
	284			1
1	285	1	1	
	286	- 1		
- 1		l l		

Symt	- 1	IN-	Part No.	Description
÷	287	dex 2-B	41A10387W01	Spring, Pinch Roller
ł		3-D	43A12719W01	Roller, Pause
	- 1	- 1	01B30863W01	Assy., Pinch Roller
			84T25151W01	Head P.C. Board
- i	Ţ	Į.	01T35403W01	Assy., Reel
1	291	4.6	01100400#01	
	292	4-E	04B41345P12	Washer, Lock(M1.7)
- 1	293	4-D	01A30161W01	Assy., Riv Lever
		;		Take Up
	294	3-F	04B41345P34	Washer Lock(Mi.2)
- 1	296	4-D	41A40910W01	Spring, Clutch
	297	4-E	43A41543W01	Washer, Som(M1.2)
	50.			
	298	3-E	47A41458W01	Pin, Take Up
- 1	299		43A40388W01	Spacer, Polyslider
- 1	300	2-D	43A41744W01	Lock, Solenoid
	000			
	1			·
İ				
-				
ļ				
l				
		L		
			Misc	ellaneous
•	501	2-B	88T15971W01	Head
	501	2-B	88T10373W01	Head
lack	501	2-B	88T10373W01	Head
	502	4-E	01V11500W64	Assy., Motor(Main, 13.2V-80mA)
	503	3-C	51T15144W01	Sensor, Photo
	504	4-G	01T10371W01	R/F Sol. Assy.
	505	4-F	40T15382W01	SW Detector
				(Pack Down)
	506	4-G	40T15382W01	SW Detector(Metal)
	000	1 2 0	1	
. '	507	2-0	A0T15999¥01	SW., Detector (Pack In)
	507	2-C	40T15222W01	SW., Detector (Pack In)
,	507 508	2-C 2-D	01T15249W01	Assy. Play Solenoid
	508	2-D	01T15249W01	Assy Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy Play Solenoid
	508	2-D	01T15249W01	Assy Play Solenoid
	508	2-D	01T15249W01	Assy Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid
	508	2-D	01T15249W01	Assy., Play Solenoid

Notes: ● : For GR75E020 model only ■ : For GR75E010 model only

▲ ; For GR75E01A model only Others ; Common

## Exploded View (GR75L Series) (2/4)



- 21 -A B C D E F G I

## Cassette Deck Assembly Parts List (GR75E Series) (2/4)

-	nbol	IN-	Part No.	Description
	No.	dex	10111000000	D-11 Och Head
	203	3-C	43A11072W01	Roll, Sub Head
	204		04B41345P01	Washer, Lock(M1.2)
	206	2-B	41A31756W01	Spring, Head
	207	2-B	03S40019G03	Screw, F-Locks (M2x4)
	208	2-B	43B12545W01	Tape. Guide
		4.0	01410000001	Assy., Riv Lever R/F
	210	4-C	01A10206W01	Sol.
	011	0.0	04B41345P29 .	Washer, Lock(M2.6)
	211	2-D		Gear, Sensor
	213	2-D	44A10295W01	Reflector
	214	2-D	14A10681W01	Gear. Planet
ĺ	215	3-E	44A30480W01	dear. Flamet
	010	l o r	41 4 1 0 0 0 7 W 0 9	Spring, Clutch
	216	3-E	41A10097W02 04B41345P35	Washer, Lock(M1.7)
	217	3-E		Assy., Riv Lever
ŀ	218	3-E	01A30824W01	Reverse
ŀ	210		07040000401	Holder, Cassette
ļ	219	4-B	07B40283W01 43A12583W01	Roller. Eject
	220	5-B	43012303#01	Roller, Eject
	١,,,		43A63281F01	Roller, Plate Base
	221	5-C 5-C	44A82206F01	Rack
	222	1	41B10386W03	Spring, GR(Rack)
	223	5-C	43A10121W01	Roller, Eject(A)
	224	4-C	43A10121W01	Roller, Eject(B)
	225	4-D	43/10300WUT	NOTICE: LIJECT(D)
	226		04B41345P11	Washer, Lock(M1.2)
	227	4-D	43A12377W01	Roller. Eject(C)
	230	4-A	45B10376W01	Slider
	231	4-A 4-B	47A63278F01	Shaft. Slider
	231	4-B	01A10212W01	Assy. Riv Plate Base
	232	4-7	OINIOZIZWOI	hooy. Fire Frace Shoe
	233	4-C	41B10386W01	Spring, Eject Arm
	234	4-B	01A21754W01	Assy., Riv Eject
	204	1	OIABITOTHOI	Arm(A)
	235	3-B	01B30863W02	Assy., Pinch Roller
	236	4-C	45A10087W01	Lever, Pack In SW.
İ	237	4-F	44A20314W01	Pinion. Eject
	1	•	-	
	238	4-E	44A13617W01	Gear, Motor Idler(B)
	239	3-E	01A10201W02	Assy Riv Lever
1				Pause
	240	2-E	45A40725W01	Lever, Play Sol
	241	-	76T10374W01	Chip
	242	1-G	04S40075G05	Washer, Polyslider
				(M2.1)
	1			
	243	1-G	01A10368W01	Assy., Flywheel
1	244	3-F	44A10141W01	Gear. Eject ldler
	245	3-E	01A10205W02	Assy., Riv Lever
				Clutch(A)
	246	3-F	44A10145W01	Gear. Eject
	247	2-B	01V23700W03	Assy., GR Control
				P.C. Board
ì				
				lel only O : For CR751 024 model only

				, , ,
		Not	e: The parts w	ithout parts list are not supplied.
ſ	Symbol	1 N-	Part No.	Description
	No.	dex	rait NO.	Description
Ì	248	3-G	43A41656W01	Spacer. UHMW
	249	3-F	44A11063W01	Gear. Bottom(A)
	250	3-F	44A11064W01	Gear. Bottom(B)
	251	3-G	34A11122W02	Washer, GR
	252	3-H	01A10210W02	Assy., Riv. Cover Bottom
	254	3-G	15B11065W01	Guide, Photo
	255	4~G	30T15126W01	Wire, PC Sensor(7P)
	258	4-D	45A10101W01	Lever, Eject Sol.
	259	3-D	49A10131W01	Pulley, Idler
	260	4-E	44A10133W01	Gear. Take Up
١	ĺ			
ļ	261	3-E	44A10134W01	Gear, Sun
	262	3-E	44B10135W01	Gear. Fix
	. 263	3-E	44B21670W01	Gear. Pause
	264	3-F	44A10137W01	Gear, Pause Idler(A)
	265	3-D	44A10379W01	Gear. Pause Idler(B)
İ				
	266	3-E	44A10138W01	Gear, Reverse idler
1	267	3-E	44A10139W01	Gear, Motor Idler
	268	4-É	44A11062W01	Gear. Reel Idler
	269	1-G	42A10380W01	Belt, GR
	270	3-A	01V14700W68	Assy., GR Audio
				P.C. Board
	271	3-E	41A30475W01	Spring, Clutch
	272	3-F	04B41345P15	Washer, Lock(M1.2)
	273	4-D	04B41345P02	Washer, Lock(M1.7)
	274	3-H	04B41345P17	Washer, Lock(M1)
	275	2-D	04B41345P30	Washer, Lock (M3.1)
	276	,	04B41345P32	Washer, Lock(M3.1)
	277	4-E	04B41345P37	Washer, Lock(M2.1)
	278	3 2-A	30T15126W02	Wire, PC Joint 7P
	279	2-D	03S44205G78	Screw. Pan(M2x6)
	280	)	03S44205G30	Screw, Pan(M2.6x4)
		1		
	281	1 4-D	03S72235F53	Screw. Pan(M2x3.3)
	282	2 3-F	03A12132W02	Screw. Eject Clutch
				(M2x2.3)
	283		03S43997P64	Screw. Pan(M1.7x3)
	28	1	41A10384W01	Spring, Eject Clutch
	28	5 3-E	41A10385W01	Spring, Cas. Push
	1			
	28	i	41B10386W02	Spring, Sub Head
	28		41A10387W01	Spring. Pinch Roller
	28		43A12719W01	Roller, Pause
	28		01B30863W01	Assy. Pinch Roller
	29	0 2-B	84T25151W01	llead P.C. Board
	1			
	1 l	1	1	1

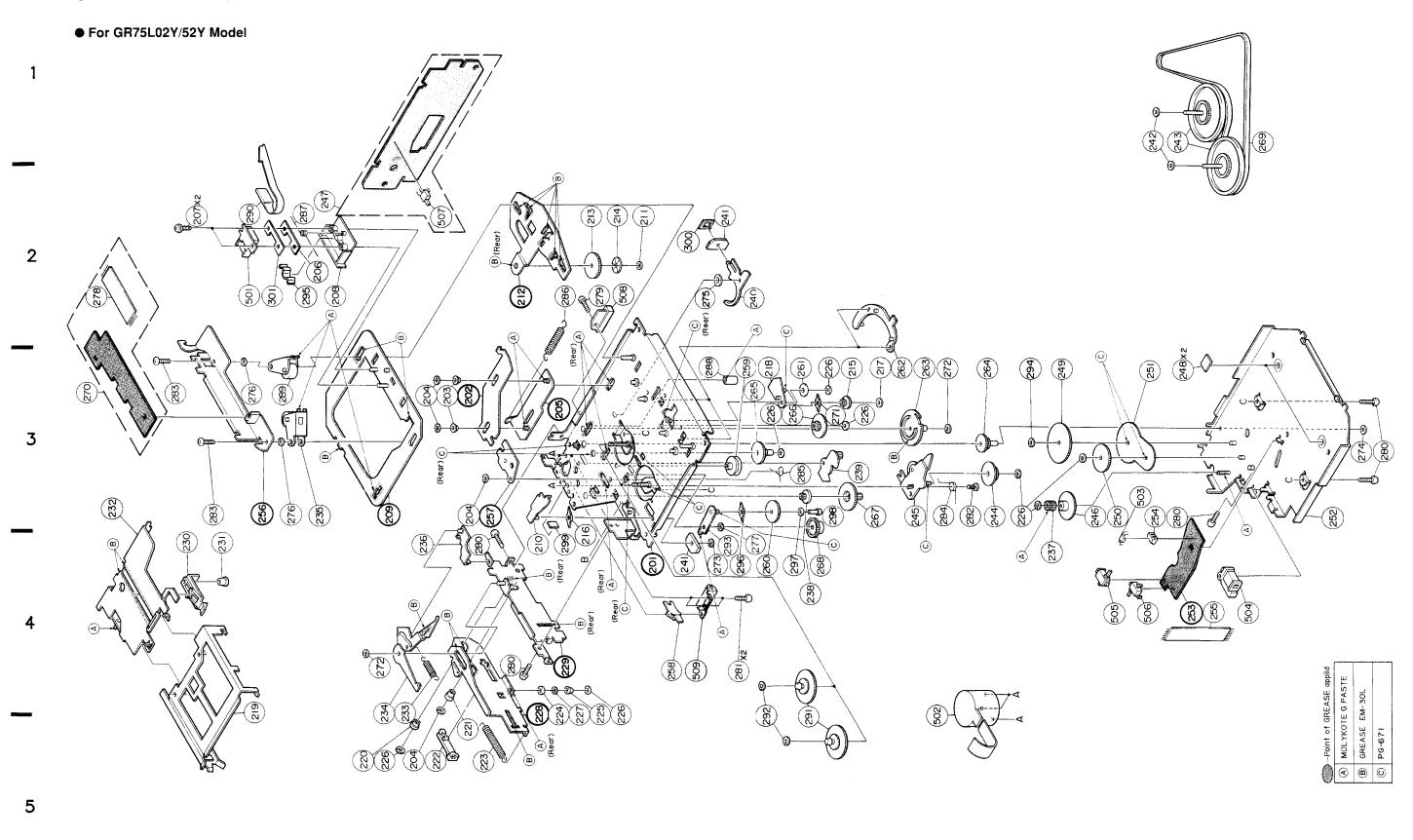
	nbol	IN-	Part No.	Description
<u> </u>	No.	dex	01705 (00100	Assy., Reel
1	291	4-E	01T35403W02	Washer, Lock(M1.7)
	292	4-E	04B41345P12	Assy., Riv Lever
1	293	4-D	01A30161W01	1
				Take Up
	294	3-F	04B41345P34	Washer, Lock(M1.2)
ŀ	295	2-B	26A20537W01	Shield, Plate
ļ				
	296	4-D	41A40910W01	Spring, Clutch
j	297	4-E	43A41543W01	Washer, Som (M1.2)
	298	3-E	47A41458W01	Pin. Take Up
	299	3-D	43A40388W01	Spacer, Polyslider
	300	2-D	43A41744W01	Lock, Solenoid
			Misc	ellaneous
	F0:	0.0	00715071101	Head
	501	2-B	88T15971W01	Assy. Motor(13.2V-105mA)
•	502	4-E	01V23900W60	
0	502	4-E	01V43400W37	Assy., Motor(13.2V-88mA)
	503	3-C	51T15144W01	Sensor. Photo
	504	4-G	01T10371W01	R/F Sol. Assy
	1			
	505	4-F	40T15382W01	SW., Detector (Pack Down)
	506	4-G	40T15382W01	SW. Detector (Metal)
	507	2-C	40T15222W01	SW., Detector (Pack In)
	508	2-D	01T15249W01	Assy., Play Solenoid
	509	4-D	01T10369W02	Assy., Eject Solenoid
	1			
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Notes : ◆ ; For GR75L020 model only ○ ; For GR75L02A model only Others ; Common

**- 23 -**

Notes : ◆ ; For GR75L020 model only ○ ; For GR75L02A model only
Others : Common

## Exploded View (GR-Y Series) (3/4)



- 25 - - - 26 - - - 26 - - - G | F | G |

## **Cassette Deck Assembly Parts**

bol	1N-	Part No.	Description
0. 203	dex 3-C	43A11072W01	Roll, Sub Head
203	3	04B41345P01	Washer, Lock(M1.2)
204	2-B	41A31756W01	Spring, Head
	t		Screw, F-Locks (M2x4)
207 208		03S40019G03 43B12545W01	Tape, Guide
200			
210	4-C	01A10206W01	Assy., Riv Lever R/F
211	2-D	04B41345P29	Washer, Lock(M2.6)
213		44A10295W01	Gear, Sensor
214			Reflector
215			Gear, Planet
210	100	44/100400#01	wear, rance
216		41A10097W02	Spring. Clutch
217	1	04B41345P35	Washer, Lock(M1.7)
218	j	01A30824W01	Assy., Riv Lever
			Reverse
219	4-B	07B40283W01	Holder, Cassette
220	į .	43A12583W01	Roller, Eject
221	5-C	43A63281F01	Roller, Plate Base
222		44A82206F01	Rack
223		41B10386W03	Spring, GR(Rack)
224	1	43A10121W01	Roller, Eject(A)
225	t	43A10360W01	Roller, Eject(B)
220	4-0	40010000001	ROTTET, EJECT(D)
226		04B41345P11	Washer, Lock(M1.2)
227	4-D	43A12377W01	Roller. Eject(C)
230	1	45B10376W01	Slider
231	1 .	47A63278F01	Shaft, Slider
232	l l	01A10212W01	Assy., Riv Plate Base
000	4-0	41B10386W01	Spring. Eject Arm
233		01A21754W01	Assy. Riv Eject
234	4-15	01721194#01	Arm(A)
235	3-B	01B30863W02	Assy., Pinch Roller
236		45A10087W01	Lever, Pack In SW.
237	1 _	44A20314W01	Pinion, Eject
201			
238	4-E	44A13617W01	Gear. Motor Idler(B)
239	3-E	01A10201W02	Assy., Riv Lever
			Pause
240	2-D	45A40725W01	Lever, Play Sol.
241		76T10374W01	Chip
242	1-G	04S40075G05	Washer, Polyslider
			(M2.1)
243	1-G	01A10368W01	Assy., Flywheel
244	1		Gear. Eject Idler
245	_	01A10205W02	Assy Riv Lever
240	3-E	SIMIOZOGROZ	Clutch(A)
246	3-F	44A10145W01	Gear, Eject
240	1 .	01V23700W03	Assy., GR Control
241	<sup>2-b</sup>	01120100#09	P.C. Board
l			I.O. DOMIN

Others ; Common

List	-		eries) (3/4)
Symbol Symbol	IN-		vithout parts list are not supplied.
No.	dex	Part No.	Description
		01V44200W74	Assy., GR Control P.C. Board
248	3-G	43A41656W01	Spacer, UHMW
249	3-F	44A11063W01	Gear, Bottom(A)
250	3-F	44A11064W01	Gear, Bottom(B)
251	3-G	34A11122W02	Washer. GR
252	3-11	01A10210W02	Assy., Riv. Cover Bottom
254	3-G	15B11065W01	Guide, Photo
255	4-G	30T15126W01	Wire. PC Sensor(7P)
258	4-D	45A10101W01	Lever, Eject Sol.
259	3-D	49A10131W01	Pulley, Idler
260	4-E	44A10133W01	Gear, Take Up
261	3-E	44A10134W01	Gear, Sun
262	3-E	44R10134W01	Gear, Fix
1	!	ļ	Gear. Pause
263	3-E	44B21670W01	
264	3-F	44A10137W01	Gear. Pause Idler(A)
265	3-D	44A10379W01	Gear. Pause Idler(B)
266	3-E	44A10138W01	Gear, Reverse Idler
267	3-E	44A10139W01	Gear, Motor Idler
268	4-E	44A11062W01	Gear Reel Idler
269	1-G	42A10380W01	Belt, GR
270	3-A	01V33300W03	Assy., GR Audio P.C. Board
271	3-E	41A30475W01	Spring, Clutch
272	3-F	04B41345P15	Washer, Lock(M1.2)
273		04B41345P02	Washer, Lock (M1.7)
274	3-11	04B41345P17	Washer, Lock(M1)
275	2-D	04B41345P30	Washer, Lock(M3.1)
276	3-B	04B41345P32	Washer, Lock (M3.1)
277	4-E	04B41345P37	Washer, Lock (M2.1)
278	2-A	30T15126W02	Wire, PC Joint 7P
279	2-D	03S44205G78	Screw. Pan(M2x6)
213		00011200010	Coros Familiaro
280		03S44205G30	Screw. Pan(M2.6x4)
281	4-D	03S72235F53	Screw, Pan(M2x3.3)
282	3-F	03A12132W02	Screw, Eject Clutch (M2x2.3)
283		03S43997P64	Screw, Pan(M1.7x3)
284	3-F	41A10384W01	Spring, Eject Clutch
005	2 - E	ALAIDOGENO	Spring, Cas. Push
285	3-E	41A10385W01	Spring, Cas. Push Spring, Sub Head
286	2-C 2-B	41B10386W02	Spring, Sub Head Spring, Pinch Roller
287	1	41 10387 W01	Roller, Pause
288 289		43A12719W01 01B30863W01	Assy Pinch Roller
290		84T35271W01	llead P.C. Board
230	2-0	04100211#01	nous 1.0. Dours

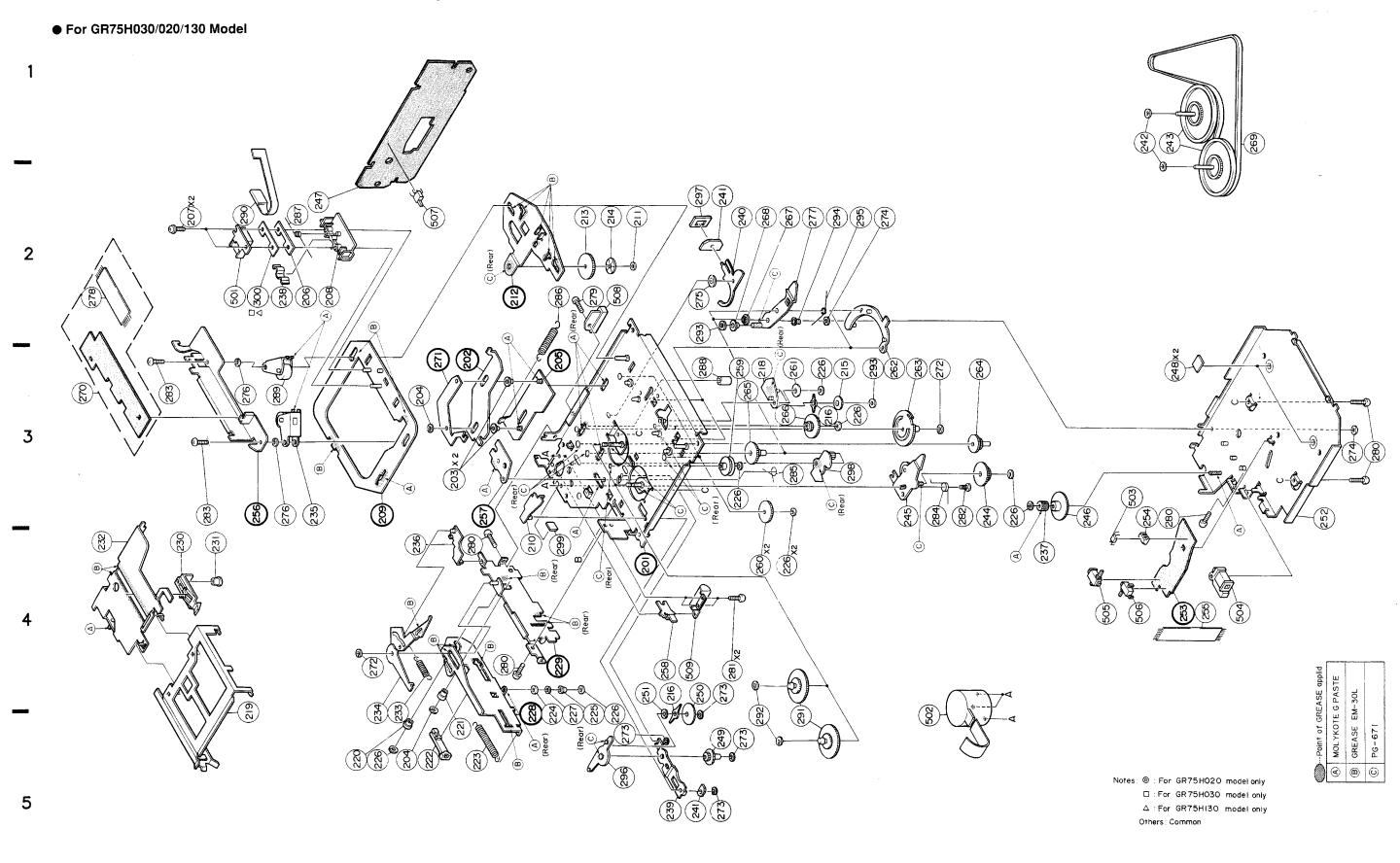
ibol	IN-	Part No.	Description
		01735403¥02	Assy., Reel
			Washer, Lock (M1.7)
			Assy., Riv Lever
290	4-0	01790101401	Take Up
004	0.0	04041045004	Washer, Lock(M1.2)
	1	1	1
295	2-B	26A20537W01	Shield, Plate
000		41440010001	Spring, Clutch
	1	!	1
			Washer, Som (M1.2)
			Pin. Take Up
	1		Spacer, Polyslider
300	2-D	43A41744W01	Lock, Solenoid
301	2-B	41A41416W01	Spring. Head
		Misc	ellaneous
501	2-B	88T15971W01	Head
	1	01V23900W60	Assy Motor(13.2V-105mA)
	1 -		Assy., Motor(13.2V-80mA)
			Sensor Photo
	1		R/F Sol. Assy
304	4 0	01110011#01	1,71 001. 1.000
505	4-F	40T15382W01	SW., Detector (Pack Down)
		1	SW., Detector (Metal)
	J		SW Detector (Pack In)
i	1	1	Assy., Play Solenoid
	1	1	Assy. Eject Solenoid
509	4-0	U111U309WU2	ASSY.: Eject Sofellord
Ì			
Ì			
		1	
	i	1	
	291 292 293 294 295 296 297 298 299 300	No.   dex   291   4-E   292   4-E   293   4-D   294   3-F   295   2-B   296   4-D   297   4-E   298   3-E   299   3-C   300   2-D   301   2-B   502   4-E   503   3-G   504   4-G   505   4-F   506   4-G   507   2-C   508   2-D	Accordance

**– 27 –** 

Notes:☆: For GR75L02Y model only ◇: For GR75L52Y model only

Others ; Common

#### Exploded View (GR75H Series) (4/4)



- 29 -B C D E F G T

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## Cassette Deck Assembly Parts List (GR75H Series) (4/4)

No.   dex   203   3-C   43A31453V01   04841345P01   Vasher. Lock (M1.2)   206   2-B   41A31756V01   Spring. Head   207   2-A   03A38021V01   Tape. Guide   210   4-C   01A30462V01   Assy Riv Lever R/F Sol   Vasher. Lock (M2.6)   211   2-D   04B41345P29   44A10285V01   Cear. Planet   215   3-E   44A30480V01   Gear. Planet   218   3-E   01A30824V01   Assy Riv Lever Reverse   218   3-E   07B40283V01   Holder. Cassette   Ho
204
206   2-B   41A31758V01   207   2-A   03A38021W01   208   2-B   43B12545W01   210   4-C   01A30462W01   210   2-D   04B41345P29   213   2-D   44A10295W01   215   3-E   44A30480W01   215   3-E   01A30824W01   216   219   4-B   07B40283W01   219   4-B   07B40283W01   221   5-C   43A63281F01   222   5-C   44B10386W03   223   5-C   41B10386W03   223   5-C   41B10386W03   224   5-C   43A10321W01   225   5-D   43A10321W01   226   226   4-A   01A10212W01   227   5-D   43A10377W01   233   5-C   41B10386W01   232   4-A   01A10212W01   233   5-C   41B10386W01   232   4-A   01A10212W01   233   5-C   41B10386W01   232   4-A   01A10212W01   233   5-C   41B10386W01   231   4-B   47A63278F01   232   4-A   01A10212W01   235   5-C   41B10386W01   236   4-C   01A3088W01   237   4-F   01A40024W01   235   3-B   01B3086W01   236   4-C   01A30883W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   238   3-C   01A30883W01   234   5-C   01A30883W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   237   4-F   01A40024W01   238   4-C   01A30883W01   2389   2-B   01B30863W02   238   4-C   01A30883W01   2399   2-B   26A20537W01   238
207 2-A 03A38021W01 Screw. Flange(M2x4) 208 2-B 43B12545W01 Tape. Guide  210 4-C 01A30462W01 Assy Riv Lever R/F Sol 211 2-D 04B41345P29 Vasher. Lock(M2.6) 212 12 -D 14A10881W01 Reflector 215 3-E 44A30480W01 Gear. Planet  216 41A30475W01 Assy Riv Lever Reverse 219 4-B 07B40283W01 Holder. Cassette 219 4-B 07B40283W01 Holder. Cassette 219 4-B 07B40283W01 Holder. Cassette 220 5-B 43A12583W01 Roller. Eject 221 5-C 43A63281F01 Rack 222 5-C 44A82206F01 Rack 223 5-C 41B10386W03 Spring. GR(Rack) 223 5-C 41B10386W03 Spring. GR(Rack) 224 5-C 43A10121W01 Roller. Eject A Roller. Eject B O4B41345P11 Vasher. Lock(M1.2) 227 5-D 43A12377W01 Slider 231 4-B 47A63278F01 Sasy Riv Plate Base 232 4-A 01A10212W01 Assy Riv Plate Base 233 5-C 41B10386W01 Spring. GR(Rack) 234 4-A 01A10212W01 Assy Riv Plate Base 235 5-C 41B10386W01 Spring. Eject Arm 236 4-A 01A10212W01 Assy Riv Plate Base 237 5-C 41B10386W01 Spring. Eject Arm 238 5-C 41B10386W01 Spring. Eject Arm 239 5-C 41B10386W01 Spring. Eject Arm 230 5-C 41B10386W01 Spring. Eject Arm 231 4-B 47A6323F11 Spring 232 5-C 01A30883W01 Assy Riv Eject Arm B 233 5-C 01A30883W01 Assy Riv Eject Arm B 234 5-C 01A30883W01 Assy Riv Eject Arm B 235 3-B 01B30863W02 236 4-C 45A10087W01 237 4-F 44A20314W01 Pinion. Eject 237 4-F 44A20314W01 Pinion. Eject 238 2-B 26A20537W01 Shield. plate
208   2-B   43B12545W01   Tape. Guide
210 4-C
211   2-D   04841345P29   Vasher. Lock(M2.6)   213   2-D   44A10295W01   214   2-D   14A10681W01   215   3-E   44A30480W01   Spring. Clutch   Assy Riv Lever Reverse   Holder. Cassette   Holder. Cass
213       2-D       44A10295W01       Gear. Sensor         214       2-D       14A10681W01       Reflector         215       3-E       44A30480W01       Gear. Planet         218       3-E       01A30824W01       Assy. Riv Lever Reverse         219       4-B       07B40283W01       Holder. Cassette         10       219       4-B       07B40283W01       Holder. Cassette         220       5-B       43A12583W01       Roller. Eject         221       5-C       43A62281F01       Roller. Plate Base         222       5-C       44A82206F01       Rack         222       5-C       44B10386W03       Spring. GR(Rack)         223       5-C       41B10386W03       Spring. GR(Rack)         224       5-C       43A10121W01       Roller. Eject A         225       5-D       43A10360W01       Roller. Eject B         226       23       4-A       45B10376W01       Roller. Eject C         230       4-A       45B10376W01       Roller. Eject C         231       4-B       47A63278F01       Shaft. Slider         232       4-A       01A10212W01       Assy Riv Plate Base         232       4-A
214 2-D 14A10681V01 215 3-E 44A30480V01 Gear. Planet  218 3-E 01A30824V01 Spring. Clutch 218 3-E 01A30824V01 Assy Riv Lever Reverse  □ 219 4-B 07B40283V01 Holder. Cassette  □ 219 4-B 07B40283V01 Holder. Cassette  220 5-B 43A12583W01 Roller. Eject 221 5-C 43A63281F01 Roller. Plate Base 222 5-C 44A82206F01 Rack 223 5-C 41B10386W03 Spring. GR(Rack)  □ 223 5-C 41B10386W03 Spring. GR(Rack)  □ 223 5-C 43B10386W04 Spring. GR(Rack)  224 5-C 43A10121W01 Roller. Eject A 225 5-D 43A10360W01 Roller. Eject B 226 04B41345P11 Washer. Lock(M1.2) 227 5-D 43A12377W01 Roller. Eject C  230 4-A 45B10376W01 Slider 231 4-B 47A63278F01 Shaft. Slider 232 4-A 01A10212W01 Assy Riv Plate Base 232 4-A 01A10212W01 Assy Riv Plate Base 233 5-C 41B10386W01 Spring. Eject Arm 233 5-C 41B10386W01 Spring. Eject Arm 233 5-C 41B10386W01 Spring. Eject Arm 233 5-C 01A30883W01 Assy Riv Eject Arm B 234 5-C 01A30883W01 Assy Riv Eject Arm B 235 3-B 01830863W02 Assy Riv Eject Arm B 236 4-C 45A10087W01 Lever Pack In SW 237 4-F 44A20314W01 238 2-B 26A20537W01 Shield. plate
215 3-E 44A30480W01 Gear. Planet  216
216
218   3-E   01A30824W01   Assy Riv Lever Reverse   Holder. Cassette   Holder. Casset
218   3-E   01A30824W01   Assy Riv Lever Reverse   Holder. Cassette   Holder. Casset
◎ 219 4-B         07B40283W01         Holder. Cassette           □ 219 4-B         07B40283W01         Holder. Cassette           △ 219 4-B         07B40012W01         Holder. Cassette           □ 220 5-B         43A12583W01         Roller. Eject           221 5-C         43A63281F01         Roller. Plate Base           222 5-C         44882206F01         Rack           ⑤ 223 5-C         41B10386W03         Spring. GR(Rack)           □ 223 5-C         41B10386W04         Spring. GR(Rack)           □ 224 5-C         43A10121W01         Roller. Eject A           Roller. Eject B         A3A10360W01         Roller. Eject B           □ 225 5-D         43A10386W04         Spring. GR(Rack)           □ 226
□ 219
△       219       4-B       07B40012W01       Holder. Cassette         220       5-B       43A12583W01       Roller. Eject         221       5-C       43A63281F01       Roller. Plate Base         222       5-C       44B10386W03       Spring. GR(Rack)         □       223       5-C       41B10386W03       Spring. GR(Rack)         △       223       5-C       41B10386W04       Spring. GR(Rack)         △       224       5-C       43A10121W01       Roller. Eject A         №       224       5-C       43A10360W01       Roller. Eject B         №       226       04B41345P11       Washer. Lock(M1.2)         №       231       4-B       47A63278F01       Shaft. Slider         231       4-B       47A63278F01       Shaft. Slider         №       232       4-A       01A10212W01       Assy Riv Plate Base         □       232       4-A       01A40024W01       Assy Riv Plate Base         □       233       5-C       41B10386W01       Spring. Eject Arm         □       233       5-C       41B63283F11       Spring. Eject Arm         □       234       5-C       01A30883W01       Assy Riv Eject Ar
220 5-B 43A12583W01 Roller. Eject 221 5-C 43A63281F01 Roller. Plate Base 222 5-C 44A82206F01 Rack  ② 223 5-C 41B10386W03 Spring. GR(Rack)  □ 223 5-C 41B10386W04 Spring. GR(Rack)  △ 223 5-C 41B10386W04 Spring. GR(Rack)  △ 224 5-C 43A10121W01 Roller. Eject A 225 5-D 43A10360W01 Roller. Eject B 226 04B41345P11 Washer. Lock(M1.2) 227 5-D 43A12377W01 Roller. Eject C  230 4-A 45B10376W01 Slider 231 4-B 47A63278F01 Shaft. Slider 232 4-A 01A10212W01 Assy Riv Plate Base 232 4-A 01A40024W01 Assy Riv Plate Base 232 4-A 01A40024W01 Spring. Eject Arm 233 5-C 41B10386W01 Spring. Eject Arm 233 5-C 41B63283F11 Spring 234 5-C 01A30883W01 Assy Riv Eject Arm B 234 5-C 01A30883W01 Assy Riv Eject Arm B 235 3-B 01B30863W02 Assy Riv Eject Arm B 236 4-C 45A10087W01 Lever Pack In SW 237 4-F 44A20314W01 Pinion. Eject 238 2-B 26A20537W01 Shield. plate
221   5-C
221   5-C
222   5-C
□       223       5-C       41B10386W03       Spring, GR(Rack)         △       223       5-C       41B10386W04       Spring, GR(Rack)         224       5-C       43A10121W01       Roller, Eject A         225       5-D       43A10360W01       Roller, Eject B         226       04B41345P11       Washer, Lock(M1.2)         230       4-A       45B10376W01       Slider         231       4-B       47A63278F01       Shaft, Slider         232       4-A       01A10212W01       Assy., Riv Plate Base         □       232       4-A       01A400212W01       Assy., Riv Plate Base         □       233       5-C       41B10386W01       Spring, Eject Arm         □       233       5-C       41B10386W01       Spring, Eject Arm         □       233       5-C       41B63283F11       Spring         □       234       5-C       01A30883W01       Assy., Riv Eject Arm B         □       234       5-C       01A30883W01       Assy., Riv Eject Arm B         □       235       3-B       01B30863W02       Assy., Riv Eject Arm D         236       4-C       45A10087W01       Lever Pack In SW         Pinion, Eject
□       223       5-C       41B10386W03       Spring, GR(Rack)         △       223       5-C       41B10386W04       Spring, GR(Rack)         224       5-C       43A10121W01       Roller, Eject A         225       5-D       43A10360W01       Roller, Eject B         226       04B41345P11       Washer, Lock(M1.2)         230       4-A       45B10376W01       Slider         231       4-B       47A63278F01       Shaft, Slider         232       4-A       01A10212W01       Assy., Riv Plate Base         □       232       4-A       01A400212W01       Assy., Riv Plate Base         □       233       5-C       41B10386W01       Spring, Eject Arm         □       233       5-C       41B10386W01       Spring, Eject Arm         □       233       5-C       41B63283F11       Spring         □       234       5-C       01A30883W01       Assy., Riv Eject Arm B         □       234       5-C       01A30883W01       Assy., Riv Eject Arm B         □       235       3-B       01B30863W02       Assy., Riv Eject Arm D         236       4-C       45A10087W01       Lever Pack In SW         Pinion, Eject
224   5-C   43A10121W01   Roller, Eject A
224   5-C   43A10121W01   Roller, Eject A   225   5-D   43A10360W01   Roller, Eject B   226   248A1345P11   Washer, Lock(M1.2)   Roller, Eject C   230   4-A   45B10376W01   Slider   231   4-B   47A63278F01   Shaft, Slider   232   4-A   01A10212W01   Assy., Riv Plate Base   232   4-A   01A10212W01   Assy., Riv Plate Base   232   4-A   01A40024W01   Assy., Riv Plate Base   232   4-A   01A40024W01   Assy., Riv Plate Base   233   5-C   41B10386W01   Spring, Eject Arm   233   5-C   41B10386W01   Spring, Eject Arm   Spring   Eject Arm   Spring   234   5-C   01A30883W01   Assy., Riv Eject Arm   B   234   5-C   01A30883W01   Assy., Riv Eject Arm   B   234   5-C   01A30883W01   Assy., Riv Eject Arm   B   235   3-B   01B30863W02   Assy., Riv Eject Arm   D   Assy., Pinch Roller   Lever Pack In SW   Pinion, Eject   Shield, plate
225
226
227   5-D   43A12377W01   Roller, Eject C
230 4-A 45B10376W01 Slider 231 4-B 47A63278F01 Shaft. Slider  232 4-A 01A10212W01 Assy Riv Plate Base  □ 232 4-A 01A40024W01 Assy Riv Plate Base  □ 233 5-C 41B10386W01 Spring. Eject Arm  □ 233 5-C 41B10386W01 Spring. Eject Arm  □ 233 5-C 41B63283F11 Spring  □ 234 5-C 01A30883W01 Assy Riv Eject Arm B  □ 234 5-C 01A30883W01 Assy Riv Eject Arm B  □ 234 5-C 01A40021W01 Assy Riv Eject Arm B  □ 235 3-B 01B30863W02 Assy Riv Eject Arm D  236 4-C 45A10087W01 Assy Riv Eject Arm D  237 4-F 44A20314W01 238 2-B 26A20537W01 Shield. plate
231
231 4-B 47A63278F01 Shaft Slider  232 4-A 01A10212W01 Assy. Riv Plate Base  △ 232 4-A 01A40024W01 Assy. Riv Plate Base  △ 233 5-C 41B10386W01 Spring Eject Arm  □ 233 5-C 41B63283F11 Spring  △ 234 5-C 01A30883W01 Assy. Riv Eject Arm B  □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B  □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B  □ 235 3-B 01B30863W02 Assy. Riv Eject Arm D  236 4-C 45A10087W01 Lever Pack In SW  Pinion Eject  Sheft Slider  Assy. Riv Plate Base  Assy. Riv Plate Base  Assy. Riv Eject Arm  Assy. Riv Eject Arm B  Assy. Riv Eject Arm D  Assy. Pinch Roller  Lever Pack In SW  Pinion Eject  Shield Plate
◎       232       4-A       01A10212W01       Assy Riv Plate Base         □       232       4-A       01A10212W01       Assy Riv Plate Base         □       232       4-A       01A40024W01       Assy Riv Plate Base         □       233       5-C       41B10386W01       Spring. Eject Arm         □       233       5-C       41B63283F11       Spring. Eject Arm         □       234       5-C       01A30883W01       Assy Riv Eject Arm B         □       234       5-C       01A30883W01       Assy Riv Eject Arm B         □       234       5-C       01A40021W01       Assy Riv Eject Arm B         □       235       3-B       01B30863W02       Assy Riv Eject Arm D         236       4-C       45A10087W01       Lever Pack In SW         Pinion. Eject       Shield. plate
□ 232 4-A 01A10212W01 Assy. Riv Plate Base  □ 233 5-C 41B10386W01 Spring. Eject Arm □ 233 5-C 41B63283F11 Spring □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B □ 234 5-C 01A30883W01 Assy. Riv Eject Arm B □ 235 3-B 01B30863W02 Assy. Riv Eject Arm D □ 236 4-C 45A10087W01 Lever Pack In SW □ 237 4-F 44A20314W01 Pinion. Eject □ 238 2-B 26A20537W01 Shield. plate
△       232       4-A       01A40024W01       Assy Riv Plate Base         ◎       233       5-C       41B10386W01       Spring. Eject Arm         △       233       5-C       41B63283F11       Spring. Eject Arm         △       234       5-C       01A30883W01       Assy Riv Eject Arm B         △       234       5-C       01A30883W01       Assy Riv Eject Arm B         △       234       5-C       01A40021W01       Assy Riv Eject Arm B         △       234       5-C       01A40021W01       Assy Riv Eject Arm B         △       235       3-B       01B30863W02       Assy Pinch Roller         236       4-C       45A10087W01       Lever Pack In SW         Pinion. Eject       Shield. plate
□ 233 5-C 41B10386W01 Spring. Eject Arm  □ 234 5-C 01A30883W01 Assy Riv Eject Arm B  □ 234 5-C 01A40021W01 Assy Riv Eject Arm B  □ 234 5-C 01A40021W01 Assy Riv Eject Arm D  □ 235 3-B 01B30863W02 Assy Pinch Roller  □ 236 4-C 45A10087W01 Lever Pack In SW  □ 237 4-F 44A20314W01 Pinion. Eject  □ 238 2-B 26A20537W01 Shield. plate
□ 233 5-C 41B10386W01 Spring. Eject Arm  □ 234 5-C 01A30883W01 Assy Riv Eject Arm B  □ 234 5-C 01A40021W01 Assy Riv Eject Arm B  □ 235 3-B 01B30863W02 Assy Riv Eject Arm D  □ 236 4-C 45A10087W01 Lever Pack In SW  □ 237 4-F 44A20314W01 Pinion. Eject  □ 238 2-B 26A20537W01 Shield. plate
△       233       5-C       41B63283F11       Spring         ⊚       234       5-C       01A30883W01       Assy Riv Eject Arm B         □       234       5-C       01A30883W01       Assy Riv Eject Arm B         △       234       5-C       01A40021W01       Assy Riv Eject Arm D         235       3-B       01B30863W02       Assy Pinch Roller         236       4-C       45A10087W01       Lever Pack In SW         237       4-F       44A20314W01       Pinion. Eject         238       2-B       26A20537W01       Shield. plate
<ul> <li>② 234 5-C 01A30883W01 Assy Riv Eject Arm B</li> <li>□ 234 5-C 01A30883W01 Assy Riv Eject Arm B</li> <li>△ 234 5-C 01A40021W01 Assy Riv Eject Arm D</li> <li>□ 235 3-B 01B30863W02 Assy Pinch Roller</li> <li>□ 236 4-C 45A10087W01 Lever Pack In SW</li> <li>□ 237 4-F 44A20314W01 Pinion. Eject</li> <li>□ 238 2-B 26A20537W01 Shield. plate</li> </ul>
□ 234 5-C 01A30883W01 Assy Riv Eject Arm B  △ 234 5-C 01A40021W01 Assy Riv Eject Arm D  235 3-B 01B30863W02 Assy Pinch Roller  236 4-C 45A10087W01 Lever Pack In SW  Pinion. Eject  238 2-B 26A20537W01 Shield. plate
△ 234 5-C 01A40021W01 Assy. Riv Eject Arm D 235 3-B 01B30863W02 Assy. Pinch Roller 236 4-C 45A10087W01 Lever Pack In SW 237 4-F 44A20314W01 Pinion. Eject 238 2-B 26A20537W01 Shield plate
235
235
236
237   4-F   44A20314W01   Pinion. Eject   Shield. plate
238 2-B 26A20537W01 Shield plate
239 5-D 01A40881W01 Assy., Riv RF Link
239   5-D   01A40881W01   Assy., Riv RF Link
The land the second sec
240 2-D 45A40725W01 Lever, Play Sol.
241 76T10374W01 Chip
242   1-G   04S40075G05   Washer Polyslider(M2.1)
243 1-G 01A30488W01 Assy. Flywheel
Notes: © ; For GR75H020 model only ☐ ; For GR75H030 model only

				ithout parts list are not supplied.		
	mbol No.	lN- dex	Part No.	Description		
	NO. 244	3-F	44A10141W01	Gear, Eject Idler		
	245	3-E	01A10205W02	Assy. Riv Lever		
	570	0.15	21110200402	Clutch A		
	246	3-F	44A10145W01	Gear, Eject		
	247	2-B	01733200842	Assy., GR Control		
	241	20	01100000#40	P.C. Board		
	248	3-G	43A41656W01	Spacer, UHMW		
	740	0.0	TOURTLOODHOT	OFFICE COMMISSION		
	249	5-D	44A30481W01	Gear. RF Idler		
	250	4-D	44A30483W01	Gear, RF		
	1	4-D	04S40075G58	Washer, Polyslider (M2.1)		
	252	3-H	01A30463W01	Assy., Riv. Cover Bottom		
	254	3-G	15B11065W01	Guide, Photo		
	255	4-G	30T15126W01	Wire. PC Sensor(7P)		
	258	4-D	45A10101W01	Lever, Eject Sol		
	259	3-D	49A30476W01	Pulley, Idler		
	260	4-E	44A30482W01	Gear. Take Up		
	261	3-E	44A30478W01	Gear. Sun		
	1					
	262	3-E	44B10135W01	Gear. Fix		
	263	3-E	44B30484W01	Gear. Pause		
	264	3-F	44A10137W01	Gear. Pause Idler A		
	265	3-E	44A30486W01	Gear. Pause Idler B		
	266	3-E	44A30479W01	Gear. Reverse Idler		
				-		
	267	2-E	44A30485W01	Gear. Motor Idler		
	268	2-E	44A30487W01	Gear. Motor Clutch		
	269	1-G	42A31850W01	Belt, GR		
0	270	3-A	01V43400W38	Assy., GR Audio P.C. Board		
	270	3-1	01733300803	Assy., GR Audio		
				P.C. Board		
Δ	270	3-A	01733300%03	Assy., GR Audio P.C. Board		
	272	3-F	04B41345P15	Washer, Lock(M1.2)		
	273		04B41345P02	Washer, Lock(M1.7)		
	274	3-H	04B41345P17	Washer, Lock(M1)		
	275	2-D	04B41345P30	Washer, Lock(M3.1)		
ļ	276	3-B	04B41345P32	Washer, Lock (M3.1)		
	277	2-E	01A30464W01	Assy., Riv Play Clutch		
	278	2-A	30T15126W02	Wire, PC Joint 7P		
	279	2-D	03S44205G78	Screw. Pan(M2x6)		
	280		03S44205G30	Screw, Pan(M2.6x4)		
	281	4-D	03S72235F53	Screw, Pan(M2x3.3)		
	282	3-F	03812233F33	Screw, Eject Clutch(M2x2.3)		
	283	0-1	03S43997P64	Screw, Pan(M1.7x3)		
	284	3-F	41A10384W01	Spring, Eject Clutch		
	285	3-E	41A10385W01	Spring, Cas Push		
	230		IMIOSOUROI	5,110, 540, 450,		
	286	2-C	41B10386W02	Spring, Sub Head		
	287	2-B	41A10387W01	Spring, Pinch Roller		
	288	3-D	43A12719W01	Roller, Pause		
	289	3-B	01B30863W01	Assy., Pinch Roller		
0	290	2-B	84T25151W01	Head P.C. Board		
<u>~</u>	, - : -	1 - 5		<del></del>		

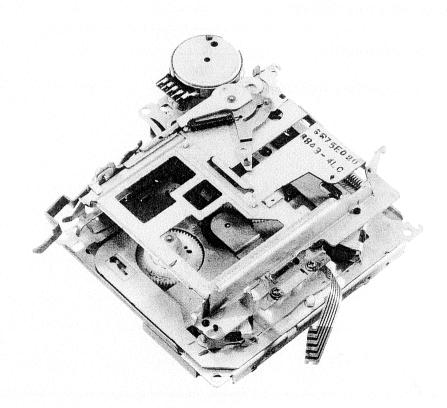
		T	T	
	mbol No	IN-	Part No.	Description
	No. 290	dex 2-B	84T35271W01	Head P.C. Board
Δ	290	2-B 2-B	84T35271W01	Head P.C. Board
	291	5-E	01T35403W01	Assy. Reel
	292	5-E	04B41345P12	Washer, Lock(Mi.7)
	293	2-D	04B41345P35	Washer, Lock(M1.7)
			04541040100	Washer Floor (HI.1)
	294	2-E	43A30827W01	Spacer, Motor Idler
	295	2-E	41A30490W01	Spring, Play Clutch
	296	5-D	01A40882W01	Assy., Riv Lever RF
	297	2-D	34A48030W01	Washer, Solenoid
	298	3-E	01A10201W02	Assy, Riv Lever Pause
	299	4-C	43A40388W01	Spacer, Polyslider
	300	2-B	41A41416\01	Spring, Head
Δ	300	2-B	41A41416W01	Spring, Head
	ļ			
	<u> </u>	1	L	
			Misce	ellaneous
0	501	2-B	88T15971W01	Head
	501	2-B	88T35406W01	Head
Δ	501	2-B	88T35406W01	Head
	502	5-F	01V41100W72	Assy., Motor(11.5v-85mA)
	503	3-C	51T15144W01	Sensor, Photo
	504	4-G	01T10371W01	R/F Sol. Assy.
	505	4-F	40T15382W01	SW Detector
				(Pack Down)
	506	4-G	40T15382W01	SW., Detector(Metal)
	507	2-C	40T15222W01	SW., Detector (Pack In)
	508	2-D	01T15249W01	Assy., Play Solenoid
ł				
	509	4-D	01T10369W02	Assy., Eject Solenoid
ĺ				
			j	
	,			
lote	es:©;	For GI	R75H020 model	only : For GR75H030 model only
	Δ;	For G	R75H130 model d	only Others: Common — 32

x4206

# 1LPINE SERVICE MANUAL

## Cassette Deck Mechanism

## ADDENDUM & REVISED (III)



GR/GR-Y SERIES

Contents —	_
List of Usable Lock Washers	3
List of Usable Oil	3
List of Usable Jigs	3
Disassembly, Assembly and Replacement of Functional Parts	16
Exploded View (1/3)	18
Cassette Deck Assembly Parts List (1/3)	20
Exploded View (2/3)	22
Cassette Deck Assembly Parts List (2/3)	24
Exploded View (GR-Y Series) (3/3)	26
Cassette Deck Assembly Parts List (GR-Y Series) (3/3)	28

**GR** Series

Memo

#### **List of Usable Lock Washers**

	· · · · · · · · · · · · · · · · · · ·				
				QUANTITY	
	SIZE	PARTS NO.	GR75E	GR75L	GR-Y
			Series	Series	Series
1	(M1.2 × 3.5 × 0.25)	04B41345P01	8	7	6
2	$(M1.7 \times 3.5 \times 0.25)$	04B41345P02	1	1	2
3	$(M2.1 \times 5 \times 0.25)$	04B41345P06	1	1	0
4	$(M1.2 \times 2.5 \times 0.25)$	04B41345P11	7	7	8
5	$(M1.7 \times 3.5 \times 0.35)$	04B41345P12	2	2	2
6	$(M1.2 \times 3.5 \times 0.35)$	04B41345P15	1	1	1
7	$(M1 \times 2.5 \times 0.25)$	04B41345P17	1	1	1
8	$(M2.6\times5\times0.25)$	04B41345P29	11	1	0
9	$(M3.1 \times 8 \times 0.05)$	04B41345P30	1	1	1
10	$(M1.7\times3\times0.25)$	04B41345P31	1	1	1
11	$(M3.1\times5\times0.35)$	04B41345P32	2	2	2
12	$(M1.2 \times 2.5 \times 0.3)$	04B41345P34	1	1	0
13	$(M2.1\times4\times0.25)$	04B41345P37	0	0	1
14	$(M2.6 \times 4.7 \times 0.25)$	04B41345P38	0	0	1

#### **List of Usable Oil**

- Molykote E paste
   Grease EM-30L
- 3) Grease FLOIL 425A

## **List of Usable Jigs**

- GR bottom gear jig (Part No. 44A20788W01)
   Head height adjustment gauge Al-500 (Part No. Al-500)

# Disassembly, Assembly and Replacement of Functional Parts

#### 1. Disassembly and Assembly of Bottom Cover

- (1) Turn the mechanism around as shown in Figure 1.
- (2) Remove M1 lock washer ① as shown in Figure 1.
- (3) Remove three screws (2) as shown in Figure 1.
- (4) Lift the bottom cover slowly from the position (A)-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
- (5) When remounting the bottom cover, first turn the front of the mechanism up as shown in Figure 2.
- (6) Slide the slider in the direction (A)-2 as shown in Figure 2.
- (7) Push down the cassette holder in the direction (A)-3 as shown in Figure 2.
- (8) Pull the door pin in the direction (A)-4 so that the mechanism is locked in as shown in Figure 2.
- (9) Turn the mechanism around as shown in Figure 3.
- (10)Pull the automatic metal lever in the direction (A)-5 and the RF solenoid chip in the direction (A)-6 as shown in Figure 3.
- (11) Insert the hooks of the bottom cover into the chassis in the direction (a)-7, and then join the part (a)-8 of the bottom cover to the chassis slowly, making sure that the 3 points indicated with the straight lines in the Figure 3 are fitted properly.
  - If there are troubles in mounting the bottom cover, do not apply force but remove the bottom cover once again and check the positions of the individual parts. (Refer to Figure 3.)
- (12)Since the hooks marked (a)-8 will be lifted slightly as shown in Figure 4, insert the jig through the hole (a)-9, and fix it turning the jig slightly in the direction (a)-11. Instead of operation (12), turn the gear nose slowly with a precision screwdriver etc., taking care not to damage it.

  After 2 to 3 turns, it will click into place.
- (13) Fix the screws and the lock washer that have been removed.

(Refer to Figures 4 and 5.)

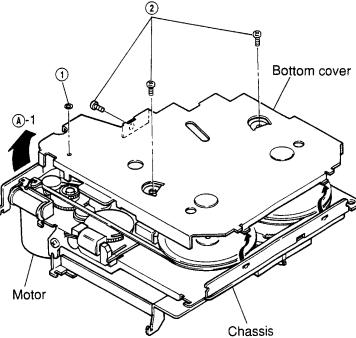


Figure 1

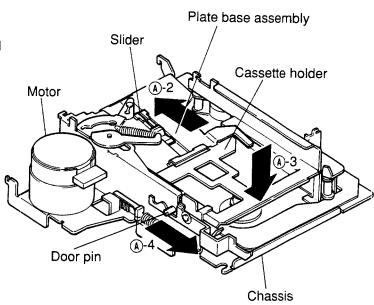


Figure 2

(14)Insert the jig into the hole (a)-9 as shown in Figure and rotate the eject solenoid counterclockwise about 20 times, pulling it in the direction (a)-10 with the finger.

Then the eject operation is completed.

Instead of operation (14), the eject operation can be performed by mounting the mechanism to the product. (Refer to Figures 4 and 5.)

Note: Do not reuse the used lock washers for mounting.

When turning the mechanism, be careful not

to drop the gear and the flywheel.

Fasten the three screws with a fastening torque of 6 kg.cm.

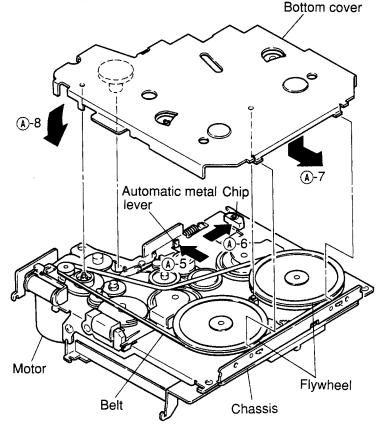


Figure 3

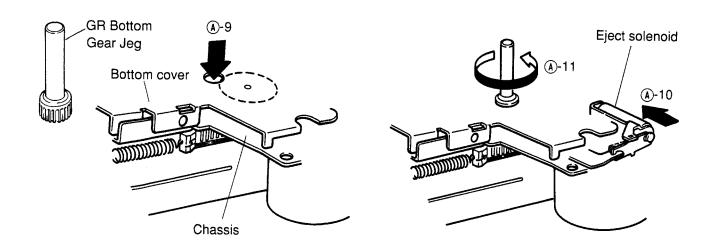


Figure 4

Figure 5

## 2. Replacement of the bottom cover mounting parts

- a. Replacement of the eject gear
  - (1) Remove M1.2 lock washer ③ as shown in Figure 6.
  - (2) Pull the eject pinion out of the eject gear and remove the eject gear as shown in Figure 6.
  - (3) Apply the molykote E paste to the section ®-1, and mount the eject gear following the removal steps in the reverse order. After replacement is finished, make sure that the gear rotates smoothly. (Refer to Figure 6.)

**Note:** Do not reuse the used lock washers for remounting.

Take care to avoid damage by piercing and tearing.

- b. Replacement of the RF solenoid
  - (1) Remove two solders (4) and remove the RF solenoid from the bottom cover by pulling it up as shown in Figure 6.
  - (2) Replace the solenoid with a new one, and remount it following the removal steps in the reverse order as shown in Figure 6.

Note: When removing solder 4, set the temperature of the soldering iron to 350° ± 10° and the soldering time to 1 – 3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged.

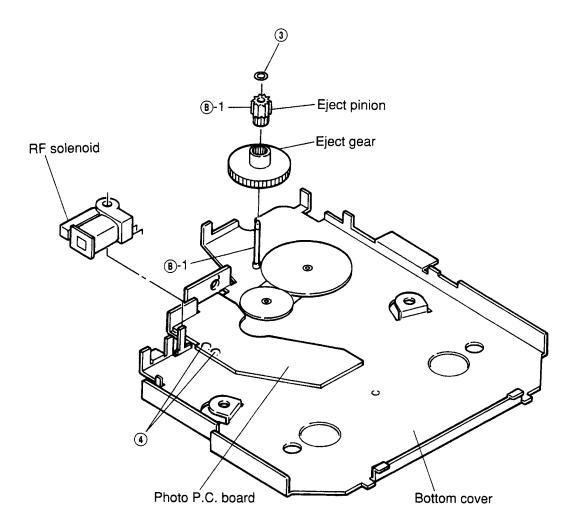


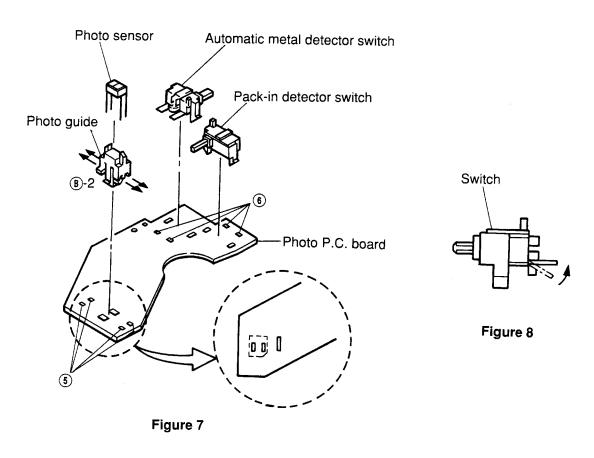
Figure 6

- c. Replacement of the photo sensor
  - (1) Remove four solders (5) as shown in Figure 7.
  - (2) Remove the photo guide together with the photo sensor from the photo P.C. board as shown in Figure 7.
  - (3) Insert the new photo sensor into the photo guide, and bend the legs of the photo sensor in the direction marked (B)-2 as shown in Figure 7.
- (4) Insert the photo guide into the P.C. board and solder the legs so that the photo sensor is set as indicated by [[11]] in Figure 7.

Note: When using the soldering iron, set the temperature of the soldering iron to  $350^{\circ} \pm 10^{\circ}$  and the soldering time to 1-3 seconds. Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damaged. Also take care that the photo guide is properly fixed and straight.

- d. Replacement of the detector switch (Automatic metal pack-in)
- (1) Remove 4 solders (a) with which the switch is fixed as shown in Figure 7.
- (2) Prepare the terminals of the switch of the new solder as shown in Figure 8.
- (3) After that, insert the switch into the photo P.C. board, and solder the terminals.

Note: When using the soldering iron, refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Also take care that the switch guide is properly fixed and straight.



#### 3. Replacement of the mounting parts on the rear of the main chassis

- a. Replacement of the belt
- After removing the bottom cover, remove the belt.
- (2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 9.

**Note:** When fixing the belt, make sure that it is not twisted or dirty. When removing the belt, do not turn up the front of the chassis.

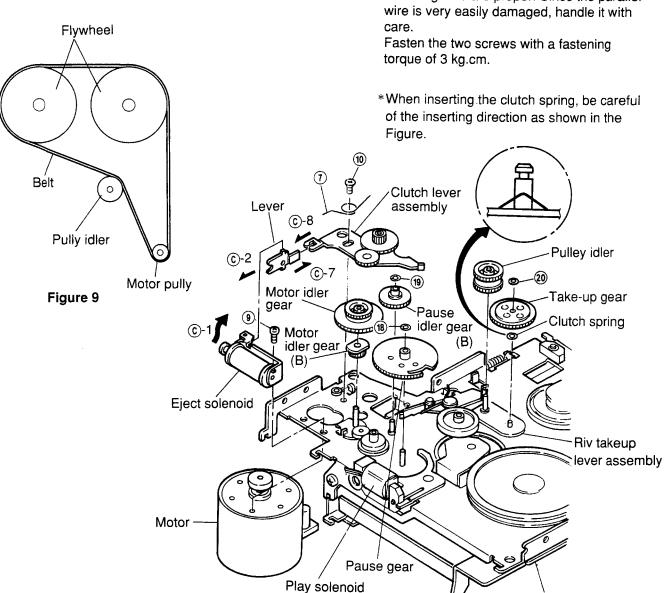


Figure 10

Chassis

- b. Replacement of the motor
  - (1) After removing the belt, remove spring ⑦ as shown in Figure 10.
  - (2) Remove solder (8)-1, and remove the parallel wire (5P) from the control P.C. board as shown in Figure 11.
  - (3) Remove two screws (3) and (10), and remove the motor, taking care not to damage the motor idler gear. (Refer to Figure 10.)
  - (4) Mount the new motor following the removal steps in the reverse order.

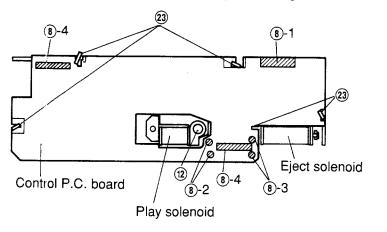
**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Since the parallel wire is very easily damaged, handle it with care.

- c. Replacement of the flywheels
  - (1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer ① located between the flywheel and the chassis. (Refer to Figure 12.)
  - (2) Fix the polyslider washer to the new flywheel and mount the flywheel to the chassis.
- d. Replacement of the play solenoid
  - (1) Remove the two solders ®-2 as shown in Figure 11.
- (2) Remove one screw (2) and remove the solenoid as shown in Figure 11.
- (3) Mount the new solenoid following the removal steps in the reverse order.

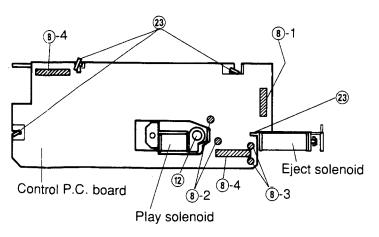
**Note:** Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 2.3 kg.cm.

- e. Replacement of the eject solenoid
  - (1) Remove two solders (8)-3. Take care not to loose the tube that protects the wire. (Refer to Figure 11.)
- (2) Remove screw (and remove the play solenoid as shown in Figure 10.
- (3) Align position ©-1 of the new solenoid with position ©-2 of the lever and fasten the screw as shown in Figure 10.
- (4) Lead the wire through the tube and solder it.

Note: Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Fasten the screws with a fastening torque of 3 kg.cm. As the solder wires are not insulated, do not let them cross each other.



[For GR75E020, GR75E010, GR75E01A, GR75E01C models]



[For GR75L020, GR75L010 models]

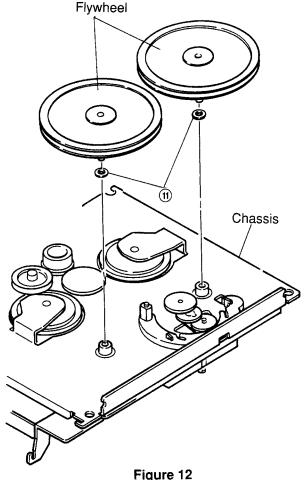


Figure 11



#### f. Replacement of gears

- (f-1) Replacement of the reverse idler gear
  - (1) Remove M1.2 lock washer ③, pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
  - (2) Remount following the removal steps in the reverse order.

#### (f-2) Replacement of the sun gear

- (1) Remove M1.2 lock washer (4), pull it up from the stud of the chassis and remove the gear as shown in Figure 13.
- (2) Mount it, following the removal steps in the reverse order.

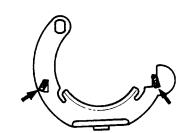
#### (f-3) Replacement of the fixing gear

- (1) Adjust the two mounting claws for the fix gear on the chassis (§) and remove the section (©)-3 of the gear by pulling it up in the direction of the arrow shown in Figure 13.
- (2) Insert the section ©-4 of the new gear into the chassis, and mount it following the removal steps in the reverse order as shown in Figure 13.
- (f-4) Replacement of the reverse lever assembly and planet gear
  - (1) Remove both the fixing gear and the sun gear and remove the reverse lever assembly as shown in Figure 13.
  - (2) Remove M1.7 lock washer (6) and remove the planet gear as shown in Figure 14.
  - (3) Mount the new planet gear and reverse lever following the removal steps in the reverse order.

#### Notes on f-1 through f-4:

After mounting all parts, check if the reverse lever moves in the directions marked ©-5 when the reverse gear is turned clockwise and counterclockwise.

\*After mounting the fixing gear, bend the claws (5) into the form of as shown in the Figure.



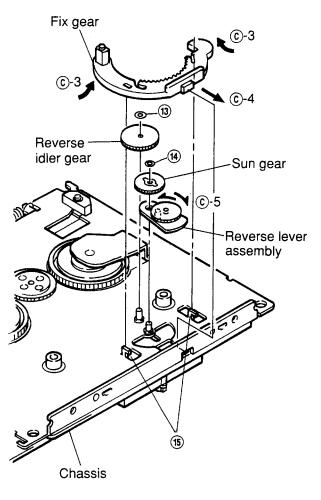


Figure 13

- (f-5) Replacement of the clutch lever assembly and eject idler gear
- (1) After removing the motor, remove the motor idler gear and the motor idler gear (B) and remove the clutch lever assembly as shown in Figure 10.
- (2) Remove M1.2 lock washer ① and remove the eject idler gear as shown in Figure 15.
- (3) Mount the new gears and clutch lever following the removal steps in the reverse order.

Note: When mounting the gears to the lever, apply grease (FLOIL 425A) to the position ©-6 as shown in Figure 15. Align the position ©-7 with the position ©-8 and mount the clutch lever as shown in Figures 10 and 15.

#### (f-6) Replacement of the pause gear

- (1) Remove M1.2 lock washer (18) and remove the pause gear pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear following the removal steps in the reverse order.

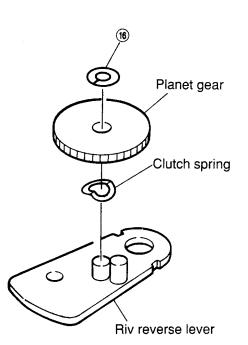
- (f-7) Replacement of the pause idler gear (B)
- (1) After removing the motor and the motor idler gear, remove M1.2 lock washer (9) and remove the gear by pulling it up from the stud of the chassis as shown in Figure 10.
- (2) Mount the new gear by following the removal steps in the reverse order.

#### (f-8) Replacement of the take-up gear

- (1) After removing the belt and the pulley idler gear, remove M1.2 lock washer (2) by pulling it up from the stud of the riv take-up lever assembly as shown in Figure 10.
- (2) Remount the take-up gear following the removal steps in the reverse order.

#### Notes on f:

Do not reuse the used washers. Take care to avoid damage by piercing and tearing.



[Disassembly Reverse Lever Assembly]

Figure 14

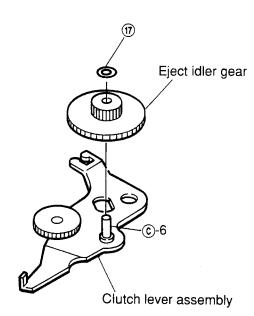


Figure 15

#### 4. Replacement of the parts mounted on the front of the chassis

- a. Replacement of the audio P.C. board
  - (1) Remove two solders ② and remove the parallel wire (7P) and the head P.C. board as shown in Figure 16.
  - (2) Adjust the two claws ② to the rectangular holes on the P.C. board and remove the P.C. board as shown in Figure 16.
  - (3) After replacement, mount the new P.C. board following the removal steps in the reverse order.

Note: The head P.C. board and the parallel wire are easily damaged. Handle them with care. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board.

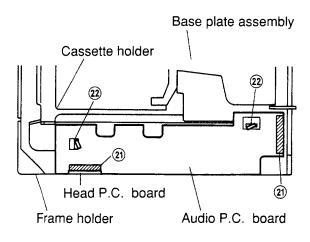


Figure 16

- b. Replacement of the control P.C. board
  - (1) Remove seven solders (8) and remove the three parallel wires and the wires of the eject solenoid and of the play solenoid as shown in Figure 11.
  - (2) Remove five claws ② and remove the P.C. board as shown in Figure 11. [For GR75E020, GR75E010, GR75E01A, GR75E01C models] Remove four claws ② and remove the P.C. board as shown in Figure 11. [For GR75L020, GR75L010 models]
  - (3) After replacing the old P.C. board with a new one, mount it following the removal steps in the reverse order.

Note: As mentioned in Item 4-a, handle the parallel wires carefully, and be sure that the temperature of the soldering iron and the soldering time are proper. As the wires of the eject solenoid are not insulated, do not let them cross each other.

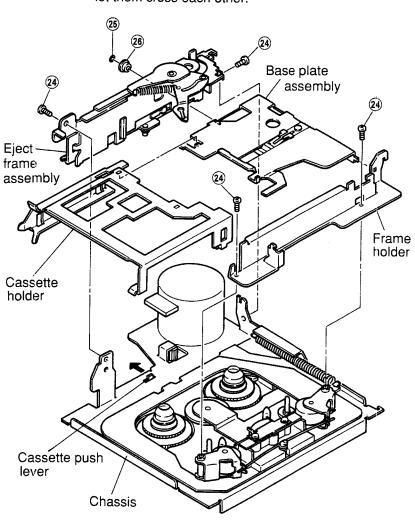


Figure 17

- c. Disassembly and assembly of the cassette holder
- (1) Remove four screws (24) and remove the eject frame assembly and the frame holder as shown in Figure 17.
- (2) Remove M1.2 lock washer (25) and plate base roller (26) and remove the cassette holder and the base plate assembly as shown in Figure 17.
- (3) Remount them following the removal steps in the reverse order.

Notes: 1. When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indicated by the arrow in the figure. Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 18).

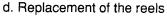
- 2. When mounting the eject frame assembly, push the cassette push lever in the direction indicated by the arrow in the Figure 17.
- When mounting the base plate assembly and the eject frame assembly, or when mounting the eject frame assembly to the chassis, do not apply excessive force to avoid deformations of the eject arm and the frame.

 Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

Eject arm

Base plate

Slider



- (1) Remove M1.7 two lock washers (26) (Refer to figure 19).
- (2) Move the select lever in the direction marked ①-1 in the Figure and remove the reel by gripping the reel gear as shown in Figure 19.
- (3) After replacement, mount the new reels following the removal steps in the reverse order.
- (4) After mounting, check the tape speed and the wow and flutter with test tape MTT-111.

**Note:** Since the reel is easily loosened if the cap is gripped, always handle it gripping the gear. Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

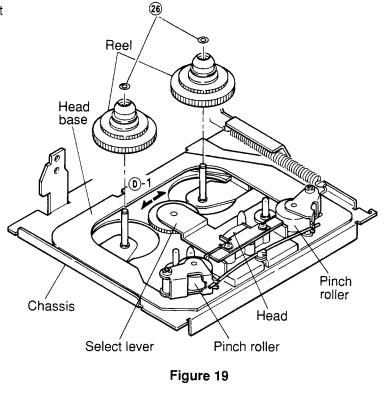
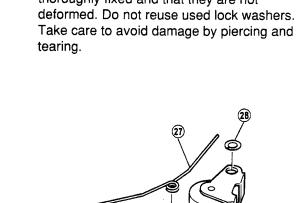


Figure 18



- e. Replacement of the pinch rollers
- (1) Remove pinch roller spring ② as shown in Figure 20.
- (2) Remove M3.1 two lock washers (28) and remove the pinch roller as shown in Figure 20.
- (3) Mount the pinch rollers following the removal steps in the reverse order. Apply insulation coating to the position (D-2 of the pinch roller as shown in Figure 20.

**Note:** Make sure that the pinch rollers are thoroughly fixed and that they are not tearing.



f. Replacement of the head

- (1) After removing the pinch roller spring, remove two screws (29) as shown in Figure 21.
- (2) Remove solder 30 and remove the head from the head P.C. board as shown in Figure 22.
- (3) After replacement, mount the new head following the removal steps in the reverse

Notes: 1. Refer to Item 2-C to make sure that the temperature of the soldering iron and the soldering time are proper. Do not bring the soldering iron near the head P.C. board. Make sure that the head P.C. board is not lifted.

> 2. Fasten the two screws with a fastening torque of 2.3 kg.cm. Note that the tension of the head spring can be decreased if the screws are fastened too strongly.

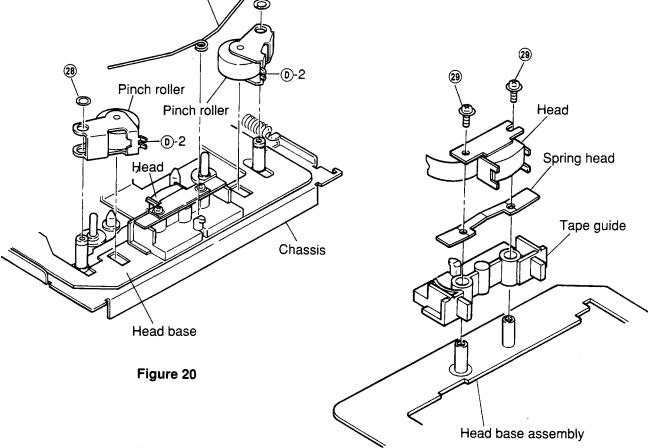
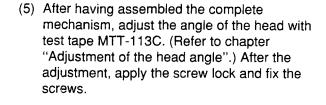
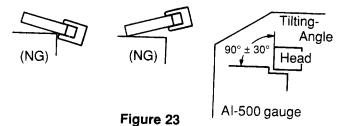


Figure 21

- (4) Adjust the height of the head as shown in Figures 23, 24 and 25.
- 1) Place the height adjustment gauge (Al-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.
- 2) When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t 0.1 mm or polislider washer t 0.13 mm). If necessary, remove the spacer.

Note: If you do not have a height gauge like described in (4)-1, run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.





Playback head Al-500 gauge Tape head Spacer guide Figure 24

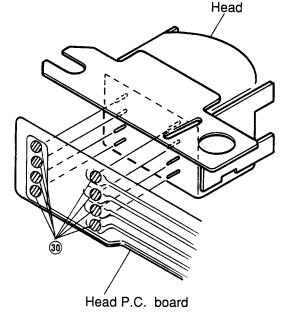
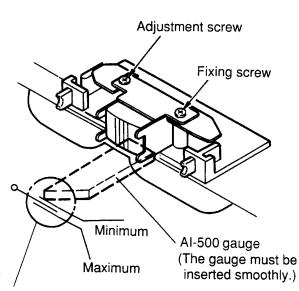


Figure 22

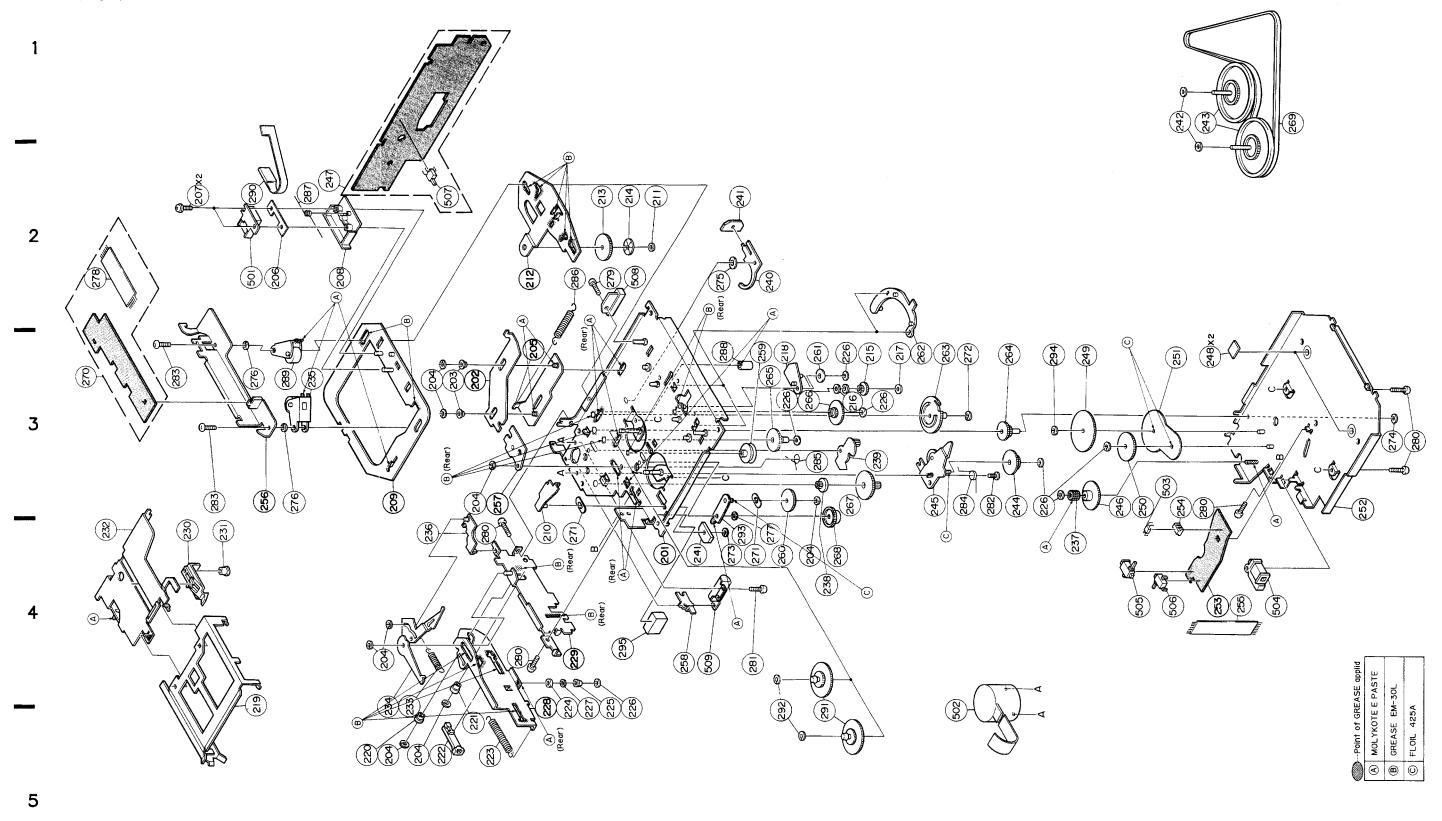


The nosepiece of the gauge must be between the minimum and maximum positions.

Figure 25

#### Exploded View (1/3)

• For GR75E010/01A/01C/020 Models



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#### Cassette Deck Assembly Parts List (1/3)

ol   1N-	Part No.	Description
. dex	4941107000	
03 3-C	43A11072W01	Roller, Sub Head
04	04B41345P01	Washer, Lock (M1.2)
ľ	41A10095W01	Spring, Head
	03S40019G03	Screw, F-Locks (M2x4)
08 2-B	43B12545W01	Tape. Guide
10 4-C	01A10206W01	Assy. Riv Lever R/F
11 2-D	04B41345P29	Washer, Lock (M2.6)
	44A10295W01	Gear, Sensor
	14A10681W01	Reflector
15 3-E	44A10142W01	Gear, Planet
16 3-E	41A10097W02	Spring, Clutch
17 3-E	04B41345P35	Washer, Lock (M1.7)
	01A21853W01	Assy., Riv Lever
	27	Reverse
19 4-B	07B10074W01	Holder. Cassette
	43A12583W01	Roller, Eject
21 5-C	43A63281F01	Roller, Plate Base
22 5-C	44A82206F01	Rack
23 5-C	41B10386W03	Spring, GR(Rack)
	43A10121W01	Roller, Eject A
25 4-D	43A10360W01	Roller, Eject B
26	04B41345P11	Washer, Lock(MI.2)
	43A12377V01	Roller, Eject C
- 1	45B10376W01	Slider
	47A63278F01	Shaft, Slider
32 4-A	01A10212W01	Assy. Riv Plate Base
02   4 n	VINIODIDAVI	nssy Trate base
33 4-C	41B10386W01	Spring, Eject Arm
34 4-B	01A10148W01	Assy Riv Eject
		Arm A
35 3-B	01B10381W02	Assy., Pinch Roller
36 4-C	45A10087W01	Lever Pack In SW
37 4-F	44A12975W01	Pinion, Eject
38 4-E	44A13617W01	Gear. Motor Idler(B)
39 3-E	01A10201W02	Assy., Riv Lever
	1511000000	Pause
40 2-D	45A10092W01	Lever, Play
41	76T10374W01	Chip
42 1-G	04S40075G05	Washer Polyslider (M2.1)
40 1 0	B141BBBBBB	Annu Dissila 1
43 1-G	01A10368W01	Assy., Flywheel
44 3-F	44/10141/01	Gear, Eject Idler
45 3-E	01A10205W01	Assy Riv Lever
İ	t	· ·
46 3-F	44A10145W01	Gear, Eject
6 3-F 7 2-B	44A10145W01 01V11500W18	Gear, Eject Assy., GR Control

S	L	IST	( T	•	vithout parts list are not supplied.
	Sy	abo1	1 N-		
		No.	dex	Part No.	Description
		248	3-G	43A90918F01	Spacer, Polyslider
				44A11063W01	Gear, Bottom A
		250	3-F	44A11064W01	Gear. Bottom B
		251	3-G	34A11122W02	Washer, GR
		252	3-H	01A10210W02	Assy., Riv. Cover Bottom
		254	1	15B11065W01	Guide, Photo
		255	4-G	30T15126W01	Wire, PC Sensor(7P)
		258	4-D	45A10101W01	Lever, Eject Sol
ĺ		259	3-D	49A10131W01	Pulley, Idler
		260	4-E	44A10133W01	Gear. Take Up
		261	3-E	44A10134W01	Gear, Sun
		1	i		Gear, Fix
					Gear, Pause
-					Gear, Pause Idler A
		265	3-D	44A10379W01	Gear, Pause Idler B
		266	3-E	44A10138W01	Gear. Reverse Idler
		267	3-E	44A10139W01	Gear, Motor Idler
ŀ		268	4-E	44A11062W01	Gear. Reel Idler
		269	1-G	42A10380W01	Belt. GR
ı	•	270	3-A	01V14700W68	Assy., GR Audio
١					P.C. Board
		270	3-A	01V11500W19	Assy., CR Audio
	_	210	3-A	01411200#12	P.C. Board
1	$\blacksquare$	270	3-A	01V11500W19	Assy., GR Audio
	_	-		01,11000,110	P.C. Board
- 1	0	270	3-A	01V11500W19	Assy., GR Audio
					P.C. Board
- 1		271	4-D	41A10097W02	Spring, Clutch
		272	3-F	04B41345P15	Washer, Lock(M1.2)
		273	4-D	04B41345P02	Washer, Lock(M1.7)
l		274	3-H	04B41345P17	Washer, Lock(M1)
		275	2-D	04B41345P30	Washer, Lock (M3.1)
ł		276	3-B	04B41345P32	Washer, Lock(M3.1)
ı		277	4-E	04B41345P06	Washer, Lock (M2.1)
-			:		
		278	2-A	30T15126W02	Wire, PC Joint 7P
ı		279	2-D	03S44205G78	Screw. Pan(M2x6)
- 1		280		03S44205G30	Screw. Pan(M2.6x4)
l		281	4-D	03S72235F38	Screw, Pan(M2x3.3)
		282	3-F	03A12132W02	Screw. Eject Clutch
					(M2x2.3)
		283		03S43997P64	Screw. Pan(M1.7x3)
j		284	3-F	41A10384W01	Spring. Eject Clutch
į		285	3-E	41A10385W01	Spring, Cas Push
		286	2-C	41B10386W02	Spring, Sub Head
		287	2-B	41A10387W01	Spring, Pinch Roller
		288	3-D	48A12719W01	Roller, Pause

Others ; Common

	Symbol .	1 N-	T	1
1,			Part No.	Description
<u> </u>	No.	dex		
	289	3-B	01B10381W01	Assy., Pinch Roller
1	290	2-B	84T10367W01	Head P.C. Board
	291	4-E	01T15164W01	Assy., Reel
	l 291	4~E	01T15164W01	Assy., Reel
	291	4-E	01T15164W02	Assy., Reel
-	.   201	1.	01110104#02	100y., keel
		4 5	017151041101	1 D. 1
		4-E	01T15164W01	Assy., Reel
	292	4-E	04B41345P12	Washer, Lock (M1.7)
	293	4-D	01A11078W01	Assy Riv Lever
ı				Take Up
	293	4-D	01A11078W01	Assy., Riv Lever
				Take Up
	293	4-D	01A11078W01	Assy., Riv Lever
-	230	* "	OINTIOIOMOI	1
				Take Up
10	293	4-D	01A30161W01	Assy., Riv Lever
	1			Take Up
	294	3-F	04B41345P34	Washer, Lock(M1.2)
	295	4-D	75S12196W88	Rubber. Pad
	230	4-0	10012190#00	Nuober. Fau
1	1			
1				
		ĺ		
			Misce	ellaneous
•	501	2-B	88T15971W01	Head
	ı	2-B	88T10373W01	**
1 -		1		Head
<b>A</b>	1	2-B	88T10373W01	llead
0	501	2-B	88T10373W01	Head
i	502	4-E	01V11500W64	Assy., Motor
	503	3-G	51T15144W01	Sensor, Photo
	504	4-G	01T10371W01	R/F Sol. Assy.
1	505	i I	40T15382W01	
	303	4-F	40110302#01	SW., Detector
				(Pack Down)
	506	4-G	40T15382W01	SW., Detector(Metal)
	507	2-C	40T15222W01	SW Detector (Pack in)
	508	2-D	01T15249W01	Assy., Play Solenoid
	509	4-D	01T10369W02	Assy. Eject Solenoid
1	003	4 0	01110303#02	ASSY., EJect Sorenord
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Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only ▲; For GR75E01A model only ○; For GR75E01C model only

Notes : ● ; For GR75E020 model only ■ ; For GR75E010 model only \*: • ; For GR75E020 model only

A ; For GR75E01A model only

O ; For GR75E01C model only

19

## Exploded View (2/3)

● For GR75L010/020 Models 213



#### Cassette Deck Assembly Parts List (2/3)

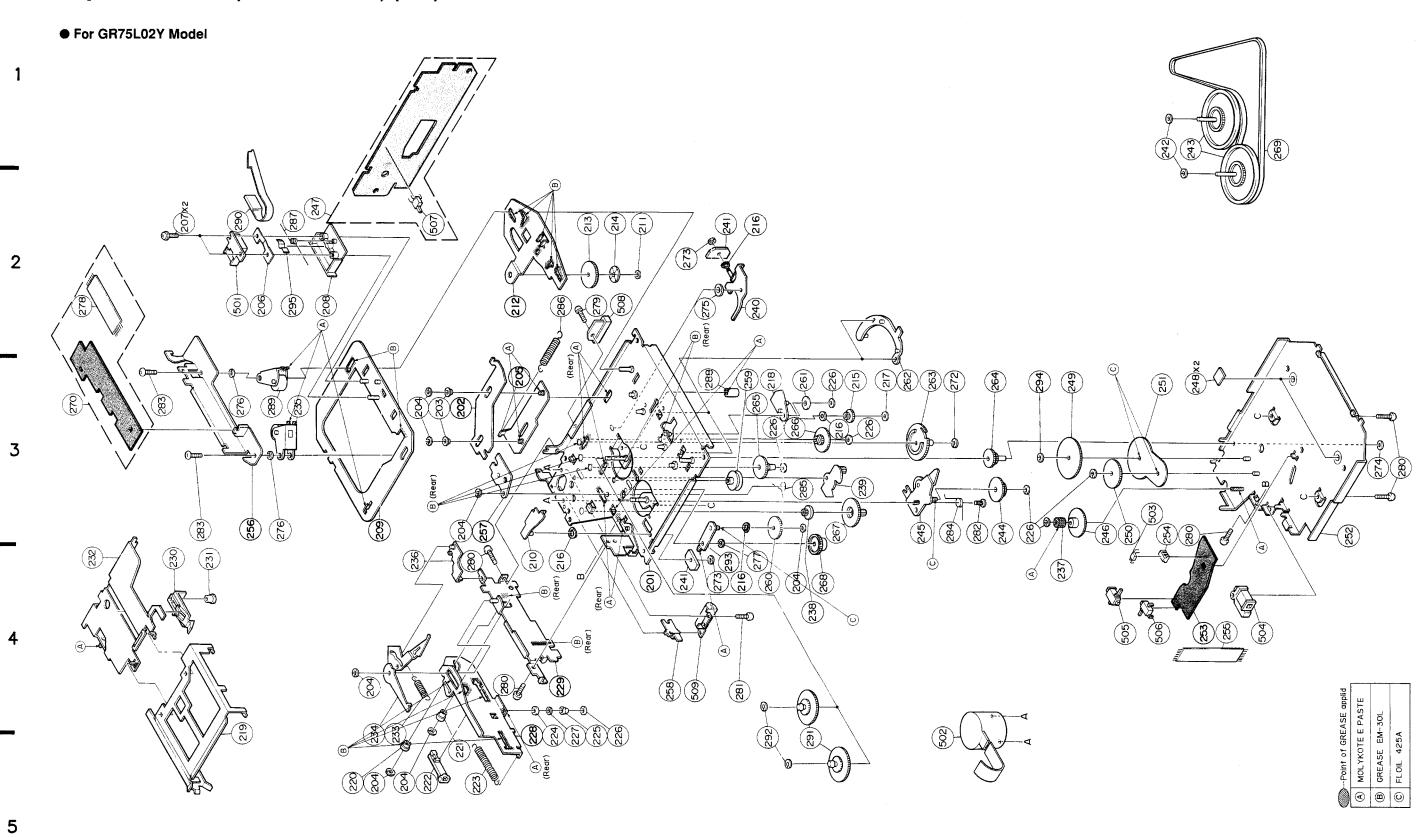
Cas	sei	te Dec	ck Assembly Par
Symbol No.	1 N-	Part No.	Description
No. 203	dex 3-C	42411070401	Polit Och Hood
203	137	43A11072W01 04B41345P01	Roll, Sub Head
	0.0		Washer, Lock(M1.2)
206	2-B	41A21671W01	Spring, Head
207	2-B	03S40019G03	Screw. F-Locks (M2x4)
208	2-B	43B12545W01	Tape. Guide
210	4-C	01A10206W01	Assy., Riv Lever R/F Sol.
211	2-D	04B41345P29	Washer, Lock(M2.6)
213	2-D	44A10295W01	Gear, Sensor
214	2-D	14A10681W01	Reflector
215	3-E	44A10142W01	Gear, Planet
216	3-E	41A10097W02	Spring, Clutch
217	3-E	04B41345P31	Washer, Lock(M1.7)
218	3-E	01A21853W01	Assy., Riv Lever
210	"	OTHE TOOD WOT	Reverse
219	4-B	07B10074W01	
220	1		Holder, Cassette
220	5-B	43A12583W01	Roller, Eject
221		43A22153W01	Roller, Plate Base
222	5-C	44A82206F01	Rack
223	5-C	41B10386W03	Spring, GR(Rack)
224	4-C	43A10121W01	Roller, Eject(A)
225	4-D	43A10360W01	Roller, Eject(B)
226		04B41345P11	Washer, Lock(M1.2)
227	4-D	43A12377W01	Roller, Eject(C)
230	1	45B10376W01	Slider
231	1	47A63278F01	Shaft, Slider
232	4-A	01A10212W01	Assy., Riv Plate Base
000	4-6	41D10000U01	Oneten Bleed
233	1 1	41B10386W01	Spring, Eject Arm
234	4-B	01A21754W01	Assy., Riv Eject
005	0.0	A1D: 00011100	Arm(A)
235	1 1	01B10381W02	Assy., Pinch Roller
236	4-C	45A10087W01	Lever, Pack In SW.
237	4-F	44A20314W01	Pinion. Eject
238	4-E	44A13617W01	Gear, Motor Idler(B)
239	3-E	01A10201W02	Assy Riv Lever
			Pause
240	2-D	45A10092W01	Lever, Play
241		76T10374W01	Chip
242	1-G	04S40075G05	Washer, Polyslider
			(M2.1)
243	1-G	01A10368W01	Assy., Flywheel
244	3-F	44A10141W02	Gear. Eject idler
244	3-F	01A10205W02	Assy., Riv Lever
240	1 0 -E	01V10709#07	Clutch(A)
246	3-F	44A10145W01	Gear. Eject
247	2-В	01V23700W03	Assy., GR Control
			P.C. Board
1			

		•	without parts list are not supplie
Symbol No.	l IN- dex	Part No.	Description
248	3-G	43A90918F01	Spacer, Polyslider
249	3-F	44A11063W01	Gear, Bottom(A)
250	3-F	44A11064W01	Gear. Bottom(B)
251	l 3-G	34A11122W02	Washer, GR
252	2 3-H	01A10210W02	Assy., Riv. Cover Bottom
254	1 3-G	15B11065W01	Guide, Photo
255	4-G	30T15126W01	Wire. PC Sensor(7P)
258	4-D	45A10101W01	Lever. Eject Sol.
259	3-D	49A10131W01	Pulley. Idler
260	4-E	44A10133W01	Gear. Take Up
261	3-E	44A10134W01	Gear. Sun
262	3-E	44B10135W01	Gear, Fix
263	3-E	44B21670W01	Gear, Pause
264	3-F	44A10137W01	Gear. Pause Idler(A)
265	3-D	44A10379W01	Gear, Pause Idler(B)
266	3-E	44A10138W01	Gear, Reverse Idler
267	3-E	44A10139W01	Gear. Motor Idler
268	4-E	44A11062W01	Gear, Reel Idler
269	1-G	42A10380W01	Belt. GR
270	3-A	01V11500W19	Assy., CR Audio
			P.C. Board
270	3-A	01V14700W68	Assy., GR Audio
			P.C. Board
271		41A10097W02	Spring, Clutch
272	3-F	04B41345P15	Washer, Lock (M1.2)
273	4-D	04B41345P02	Washer, Lock(M1.7)
274	3-H	04B41345P17	Washer, Lock(M1)
275	2-D	04B41345P30	Washer, Lock(M3.1)
276	3-B	04B41345P32	Washer, Lock (M3.1)
277	4-E	04B41345P06	Washer, Lock(M2.1)
278	2-A	30T15126W02	Wire. PC Joint 7P
279	2-D	03S44205G78	Screw Pan(M2x6)
280		03S44205G30	Screw, Pan(M2.6x4)
281	4-D	03S72235F38	Screw. Pan(M2x3.3)
282	3-F	03A12132W02	Screw. Eject Clutch (M2x2.3)
283		03S43997P64	Screw. Pan(M1.7x3)
284	1 1	41A10384W01	Spring, Eject Clutch
285	3-E	41A10385W01	Spring, Cas. Push
1	1 1		I .
- 1	1 1		1
			· =
289	' -	01B10381W01	Assy., Pinch Roller
290	2-B	84T10367W01	Head P.C. Board
285 286 287 288 289	3-E 2-C 2-B 3-D 3-B	41A10385W01 41B10386W02 41A10387W01 43A12719W01 01B10381W01	Spring, Cas. Push Spring, Sub Head Spring, Pinch Roller Roller, Pause Assy., Pinch Roller

Sy	mbol	IN-	Part No.	Description
	No.	dex	01715104900	Aggy Bool
	291	4-E	01T15164W03	Assy., Reel
	292	4-E	04B41345P12	Washer, Lock (M1.7)
	293	4-D	01A11078W01	Assy Riv Lever
	-			Take Up
	294	3-F	04B41345P34	Washer, Lock(M1.2)
	295	2-B	26A2O537W01	Shield, Plate
		<u> </u>		
			Misc	ellaneous
*	501	2-B	88T10373W01	Head
•	501	2-B	88T15971W01	Head
	502	4-E	01V23900W60	Assy Motor
	503	3-G	51T15144W01	Sensor, Photo
	504	4-G	01T10371W01	R/F Sol. Assy
	505	4-F	40T15382W01	SW. Detector (Pack Down)
		1	40T15382W01	SW., Detector (Metal)
ļ	507		40T15382W01	SW., Detector (Pack In)
	508	i		ł .
			01T15249W01	Assy., Play Solenoid
	509	4-D	01T10369W02	Assy., Eject Solenoid
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Notes : ★ : For GR75L010 model only ◆ : For GR75L020 model only Others : Common

## Exploded View (GR-Y Series) (3/3)



A B C D E F G H

## Cassette Deck Assembly Parts List (GR-Y Series) (3/3)

Symbo	.   .	N-	Part No.	Description
No.		dex		
20	3 3	-c	43A11072W01	Roll. Sub Head
20	)4		04B41345P01	Washer, Lock(M1.2)
20	6 2	:-B	41A21671W01	Spring, Head
20	7 2	-B	03S40019G03	Screw. F-Locks (M2x4)
20	8 2	:-B	43B12545W01	Tape, Guide
1		}		
21	10 4	-C	01A10206W01	Assy., Riv Lever R/F
			· ·	Sol.
21	11 2	2-D	04B41345P38	Washer, Lock(M2.6)
21	13 2	?-D	44A10295W01	Gear. Sensor
21	14 2	2-D	14A10681W01	Reflector
21	15 3		44A10142W01	Gear. Planet
21	16		41A10097W02	Spring, Clutch
1 1	- 1	3-E	04B41345P31	Washer, Lock(M1.7)
1 1		3-E	01A21853W01	Assy Riv Lever
	`   `			Reverse
,	19 4	1-B	07B10074W01	Holder, Cassette
	- 1	5-B	43A12583W01	Roller, Eject
2	٠ ا	, ט	ZOUTTOOOMOI	1011011 2001
2	21   5	5-C	43A63281F01	Roller, Plate Base
1 1	- 1		44A82206F01	Rack
1 1			41B10386W03	Spring, GR(Rack)
1 1	·		43A10121W01	Roller, Eject(A)
4 1	1		43A10360W01	Roller, Eject(B)
2	40 4	ע־נ	45X1U30UWU1	Roller, Eject(b)
0.	26		04B41345P11	Washer, Lock(M1.2)
		1-D	43A12377W01	Roller, Eject(C)
1	1			Slider
1 1			45B10376W01	Shaft, Slider
1 1	- 1	1-B	47A63278F01	Assy., Riv Plate Base
2.	32 4	1-A	01A10212W01	Assy., RIV Flate base
,	33 4	1-C	41B10386W01	Spring. Eject Arm
1	- 1	1-B	01A21754W01	Assy. Riv Eject
1 2	34   1	ŧ-D	01A21754#01	Arm(A)
	0 6	3-B	01B10381W02	Assy., Pinch Roller
1				Lever, Pack In SW.
1	- 1			1
	37	1-F	44A20314W01	Pinion, Eject
0	38 4	4-E	44A13617W0i	Gear, Motor Idler(B)
1 1		3-E	01A10201W02	Assy. Riv Lever
"	٠   ١		OTUTOROTHOR	Pause
,	40	2-D	01A30879W01	Assy., Riv. Play Sol.
1 1	41	٠,	76T10374W01	Chip
1 1 -		1 <b>-</b> G	04S40075C05	Washer, Polyslider
2	76	, u	04040010000	(M2.1)
				(Ha . 1)
,	43	1-G	01A10368W01	Assy., Flywheel
	1	1-0 3-F	44A10141W01	Gear. Eject Idler
1 1		3-r 3-E	01A10205W02	Assy., Riv Lever
1   2	*0	n-E	01710709#07	Clutch(A)
	40	יו_פ	44410145001	
1 1	- 1	3-F	44A10145W01	Gear, Eject
	47	2-B	01V23700W04	Assy., GR Control
				P.C. Board
			L	<u> </u>

		Not	e: The parts w	ithout parts list are not supplied.
Syı	loda	1 N-	Part No.	Description
	No.	dex		
	248	3-G	43A90918F01	Spacer, Polyslider
	249	3-F	44A11063W01	Gear, Bottom(A)
	250	3-F	44A11064W01	Gear, Bottom(B)
	251	3 <b>-</b> G	34A11122W02	Washer, GR
	252	3-H	01A10210W02	Assy., Riv. Cover Bottom
	254	3-G	15B11065W01	Guide, Photo
	255	4-G	30T15126W01	Wire, PC Sensor(7P)
	258	4-D	45A10101W01	Lever, Eject Sol.
	259	3-D	49A10131W01	Pulley, idler
	260	4-E	44A10133W01	Gear, Take Up
	261	3-E	44A10134W01	Gear. Sun
	262	3-E	44B10135W01	Gear. Fix
	263	3-E	44B21670W01	Gear. Pause
	264	3-F	44A10137W01	Gear. Pause Idler(A)
	265	3-D	44A10379W01	Gear, Pause Idler(B)
	266	3-E	44A10138W01	Gear, Reverse !dler
	267	3-E	44A10139W01	Gear, Motor Idler
	268	4-E	44A11062W01	Gear, Reel Idler
	269	1-G	42A10380W01	Belt. GR
	270	3-A	01V33300W03	Assy., GR Audio
				P.C. Board
	272	3-F	04B41345P15	Washer, Lock(M1.2)
	273		04B41345P02	Washer, Lock(M1.7)
	274	3-H	04B41345P17	Washer, Lock(MI)
	275	2-D	04B41345P30	Washer, Lock (M3.1)
	276	3-B	04B41345P32	Washer, Lock(M3.1)
	277	4-E	04B41345P37	Washer, Lock(M2.1)
	278	2-A	30T15126W02	Wire, PC Joint 7P
	279	2-D	03S44205G78	Screw, Pan(M2x6)
	280		03S44205G30	Screw, Pan(M2.6x4)
	281	4-D	03S72235F38	Screw. Pan(M2x3.3)
	282	3-F	03A12132W02	Screw. Eject Clutch
				(M2x2.3)
	283		03S43997P64	Screw, Pan(M1.7x3)
	284	3-F	41A10384W01	Spring, Eject Clutch
	285	3-E	41A10385W01	Spring, Cas. Push
	286	2-C	41B10386W02	Spring. Sub Head
	287	2-B	41A10387W01	Spring, Pinch Roller
	288	3-D	43A12719W01	Roller Pause
	289	3-B	01B10381W01	Assy., Pinch Roller
	290	2-B	84T35271W01	Head P.C. Board

Sym	bol	1 N-	Part No.	Description
	o	dex		
- 1	291	4-E	01T15164W03	Assy., Reel
- 1	292	4-E	04B41345P12	Washer, Lock(M1.7)
	293	4-D	01A30161W01	Assy., Riv Lever
				Take Up
	294	3-F	04B41345P34	Washer, Lock(M1.2)
	295	2-B	26A20537W01	Shield, Plate
1		1	Misc	ellaneous
	501	2-B	88T15971W01	Head
	502	4-E	01V23900W60	Assy., Motor
	503	3-G	51T15144W01	Sensor, Photo
i	504	4-G	01T10371W01	R/F Sol. Assy
	505	4-F	40T15382W01	SW., Detector (Pack Down)
	506	4-G	40T15382W01	SW., Detector (Metal)
	507	2-C	40T15222W01	SW Detector (Pack In)
	508	2-D	01T15249W01	Assy., Play Solenoid
	509	4-D	01T10369W02	Assy., Eject Solenoid
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